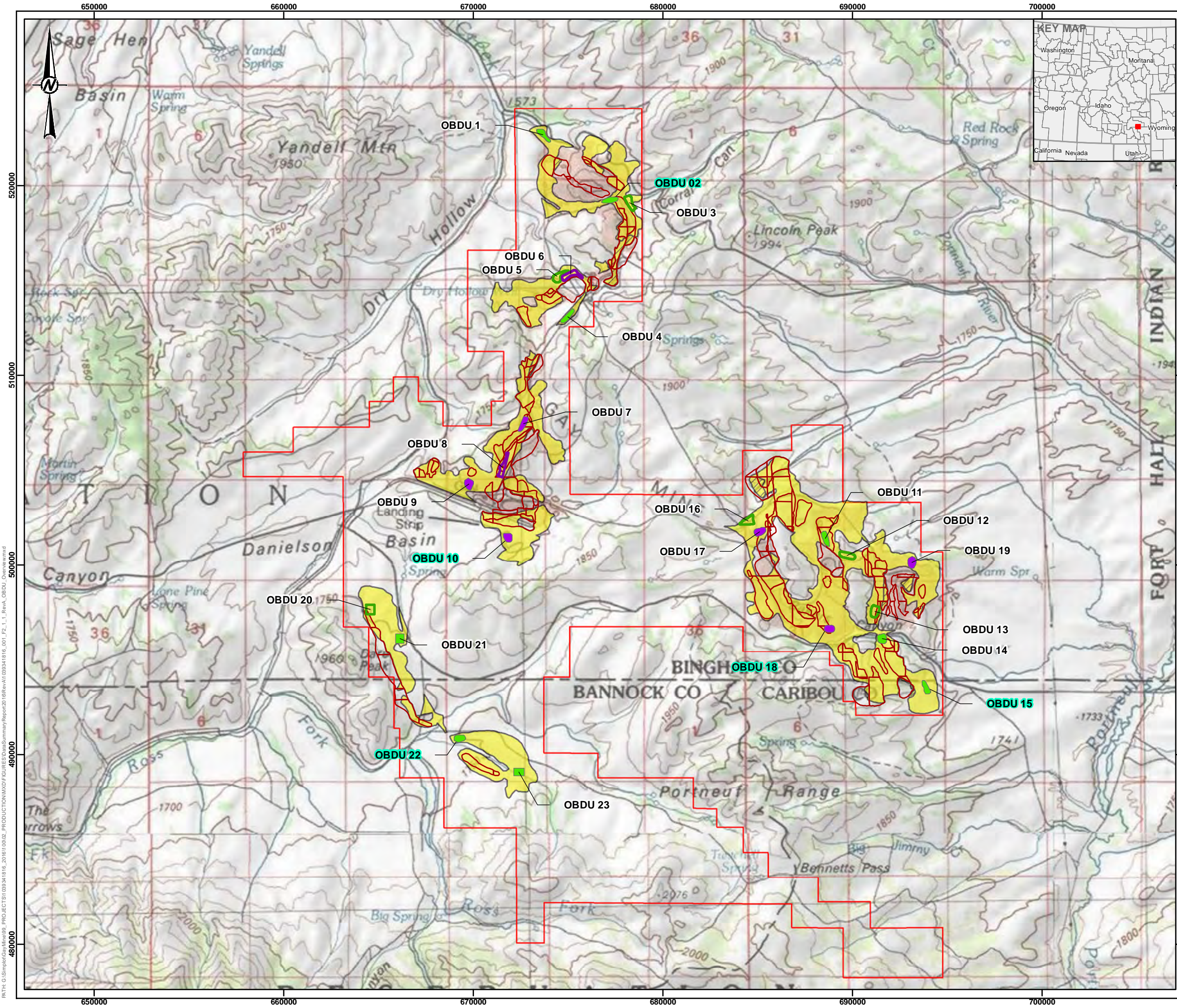


## FIGURES





**LEGEND**

- CERCLA Site Boundary
- Outline of Pit as Mined
- Reclamation Area**
  - 1994 Reclamation Area
  - 1994 Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden
- Overburden Decision Unit**
  - Overburden Decision Unit Top Soil
  - Overburden Decision Unit No Top Soil
  - Overburden Alternate Areas Top Soil
  - Overburden Alternate Areas No Top Soil

**NOTE(S)**

Highlighted OBDU's sampled in 2016, all others sampled in 2015

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

3. BROWN SHADING ON THIS FIGURE REPRESENTS THE USGS INTERPRETATION OF GENERALIZED DISTURBED MINING AREAS AS OF 1981. THIS SHADING WAS ON THE ORIGINAL TOPOGRAPHICAL MAP USED FOR THIS FIGURE AND DOES NOT REPRESENT ACTUAL DISTURBED AREAS OR AREAS DISTURBED AFTER 1981.

**REFERENCE(S)**

1. NATIONAL GEOGRAPHIC AND I-CUBED (2009, TOPO)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR, HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**

FMC CORPORATION/J.R.SIMPLOT COMPANY

**PROJECT**

FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

**TITLE**

OVERBURDEN DECISION UNIT MAP

CONSULTANT	YYYY-MM-DD	2017-02-03
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	DC	
APPROVED	JC	

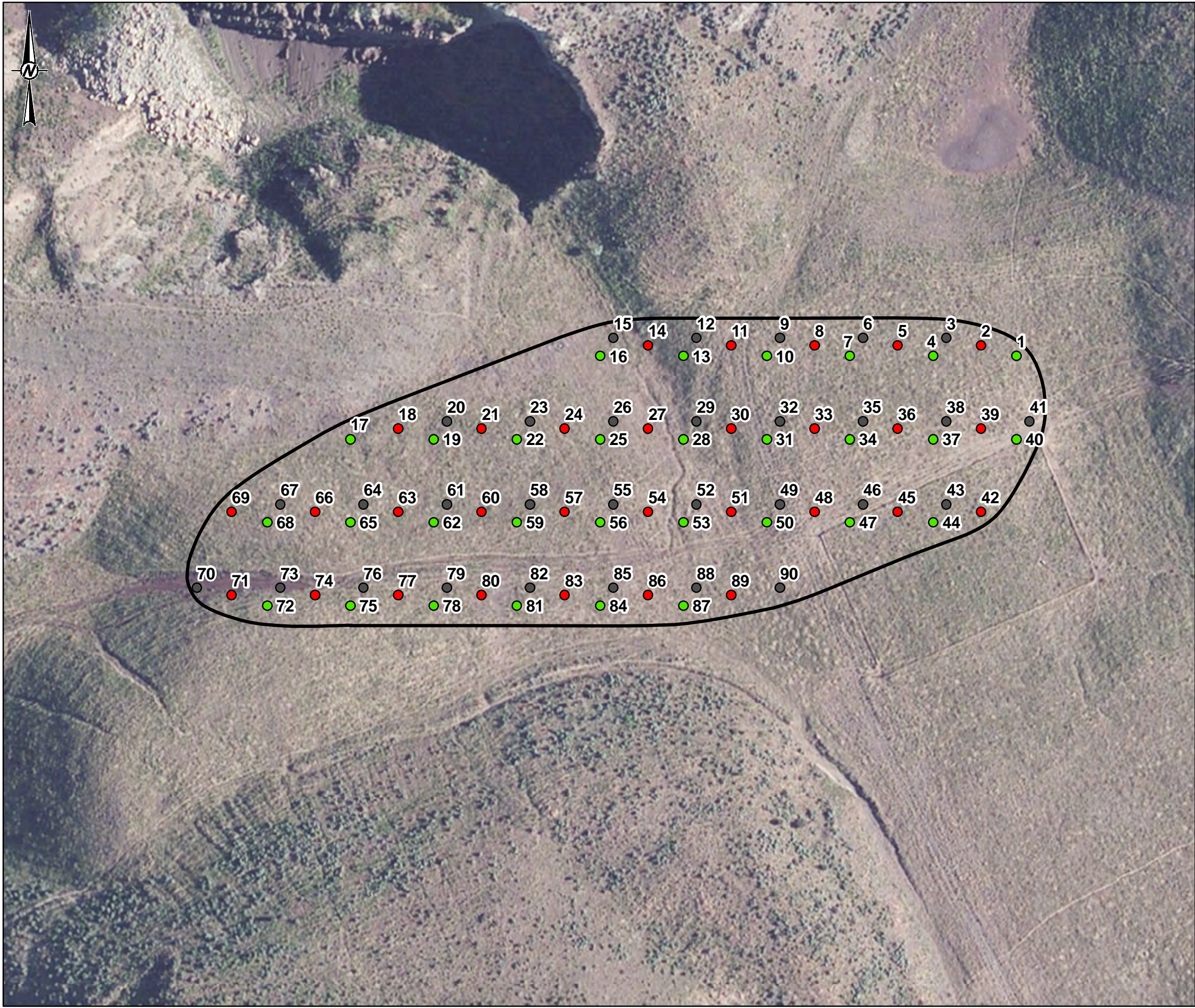


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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11



PATH: G:\Simplot\GayMine\99\_P\PROJECTS\1039341816\_2016\10002\_PRODUCTION\MXD\FIGURES\DataSummary\Report2016\RevA\1039341816\_001\_F2\_1\_2\_RevA\_OverburdenDecisionUnit\_02.mxd



LEGEND

Replicate

- Replicate 1
- Replicate 2
- Replicate 3
- Overburden Decision Unit

NOTE(S)

- ALL SAMPLES COLLECTED AT SPECIFIED DEPTHS WITH THESE EXCEPTIONS:  
REPLICATE 2 DEEP INCREMENTS 29, 49, AND 52 (REFUSAL AT 6 TO 9 INCHES DEPTH)
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

REFERENCE(S)

- ESRI, HERE, DELORME, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS
- U.S. BUREAU OF INDIAN AFFAIRS  
(EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD83 STATEPLANE IDAHO EAST FIPS 1101 (US FEET)

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**OVERBURDEN DECISION UNIT 02 BOUNDARY AND SAMPLE INCREMENT LOCATIONS**

CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	DC	
APPROVED	JC	



PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>2.1-2</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n



PATH: G:\Simplot\Gay Mine\99\_P\PROJECTS\039341816\_2016\10002\_PRODUCTION\MXD\FIGURES\DataSummary\Report2016RevA\1039341816\_001\_F2\_1\_3\_RevA\_OverburdenDecisionUnit\_10.mxd



LEGEND

Replicate

- Replicate 1
- Overburden Decision Unit

NOTE(S)

1. ALL SAMPLES COLLECTED AT SPECIFIED DEPTHS WITH THESE EXCEPTIONS: REPLICATE 1 DEEP INCREMENTS 12, 22, AND 23 (ROCKS OR REFUSAL AT 9 INCHES DEPTH)
2. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

REFERENCE(S)

1. ESRI, HERE, DELORME, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS
2. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
3. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
4. COORDINATE SYSTEM: NAD83 STATEPLANE IDAHO EAST FIPS 1101 (US FEET)

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**OVERBURDEN DECISION UNIT 10 BOUNDARY AND SAMPLE INCREMENT LOCATIONS**

CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	DC	
APPROVED	JC	

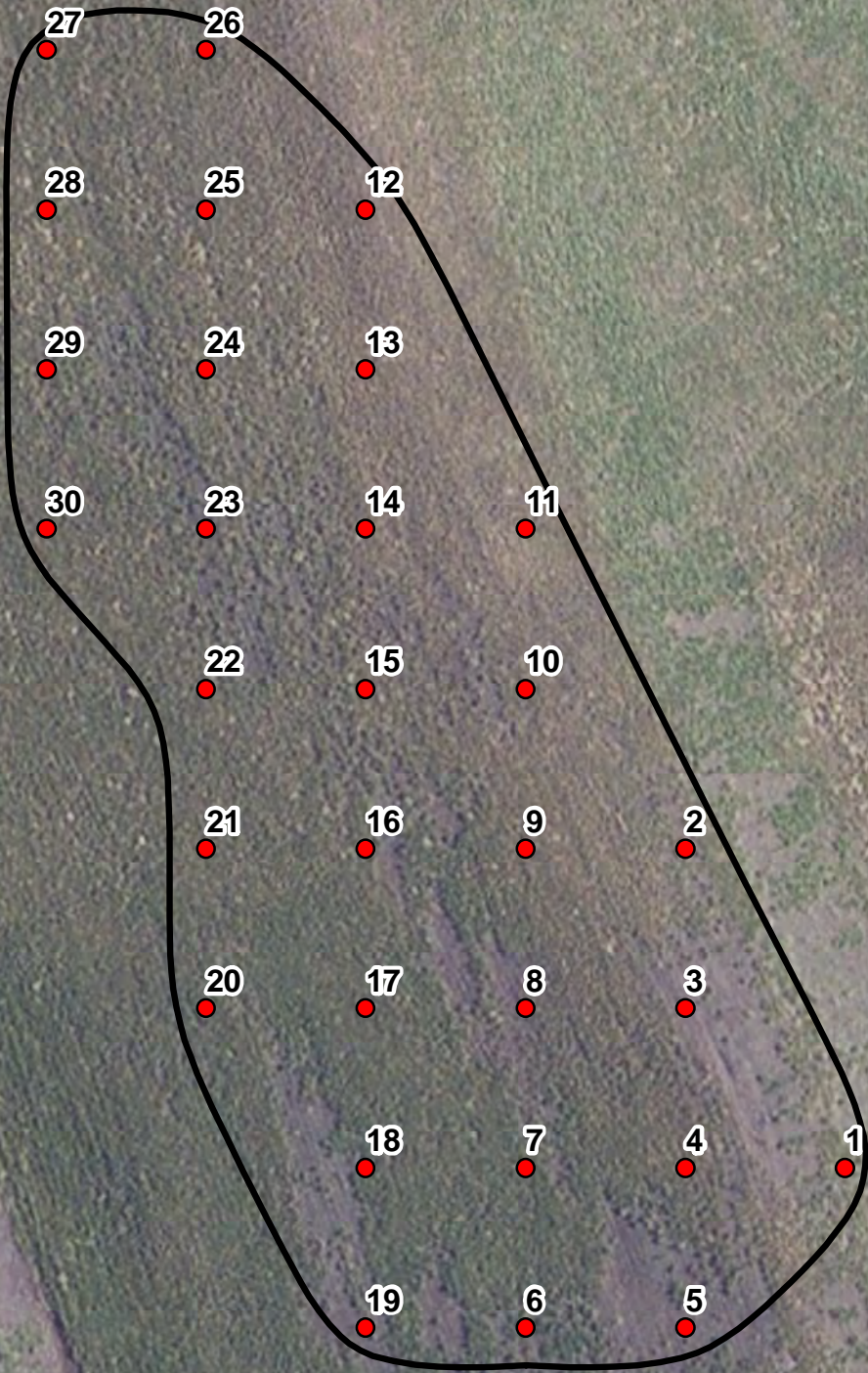


PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>2.1-3</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n



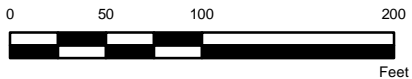
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LEGEND

Replicate

- Replicate 1
- Overburden Decision Unit



NOTE(S)

1. ALL SAMPLES COLLECTED AT SPECIFIED DEPTHS
2. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

REFERENCE(S)

1. ESRI, HERE, DELORME, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS
2. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
3. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
4. COORDINATE SYSTEM: NAD83 STATEPLANE IDAHO EAST FIPS 1101 (US FEET)

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**OVERBURDEN DECISION UNIT 15 BOUNDARY AND SAMPLE INCREMENT LOCATIONS**

CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	DC	
APPROVED	JC	



PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>2.1-4</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n



PATH: G:\Simplot\Gay Mine\99\_P\PROJECTS\039341816\_2016\10002\_PRODUCTION\MXD\FIGURES\DataSummary\Report2016\RevA\1039341816\_001\_F2\_1\_5\_RevA\_OverburdenDecisionUnit\_18.mxd



LEGEND

- Replicate
- Replicate 1
  - Overburden Decision Unit

NOTE(S)

1. ALL SAMPLES COLLECTED AT SPECIFIED DEPTHS

2. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

REFERENCE(S)

1. ESRI, HERE, DELORME, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS

2. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

3. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

4. COORDINATE SYSTEM: NAD83 STATEPLANE IDAHO EAST FIPS 1101 (US FEET)

CLIENT

FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT

FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE

OVERBURDEN DECISION UNIT 18 BOUNDARY AND SAMPLE INCREMENT LOCATIONS

CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	DC	
APPROVED	JC	

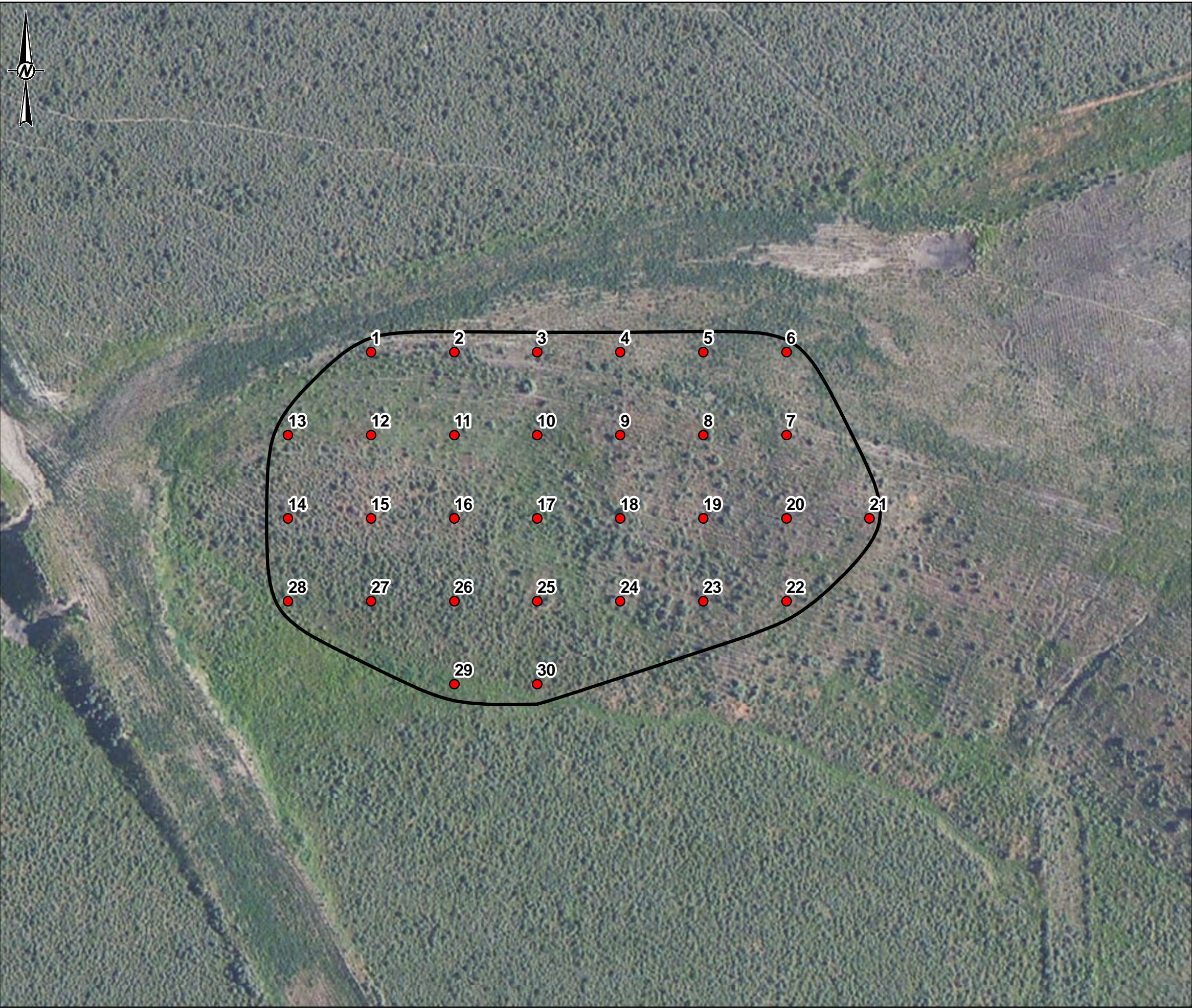


PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE 2.1-5
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 118

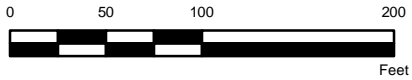


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LEGEND

- Replicate**
- Replicate 1
- Overburden Decision Unit**



**NOTE(S)**

1. ALL SAMPLES COLLECTED AT SPECIFIED DEPTHS WITH THESE EXCEPTIONS: REPLICATE 1 DEEP INCREMENTS 19, 20, 22, 23, AND 26 (HARDPACK OR REFUSAL AT 6 TO 9 INCHES DEPTH)

2. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

**REFERENCE(S)**

1. ESRI, HERE, DELORME, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS

2. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

3. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

4. COORDINATE SYSTEM: NAD83 STATEPLANE IDAHO EAST FIPS 1101 (US FEET)

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**OVERBURDEN DECISION UNIT 22 BOUNDARY AND SAMPLE INCREMENT LOCATIONS**

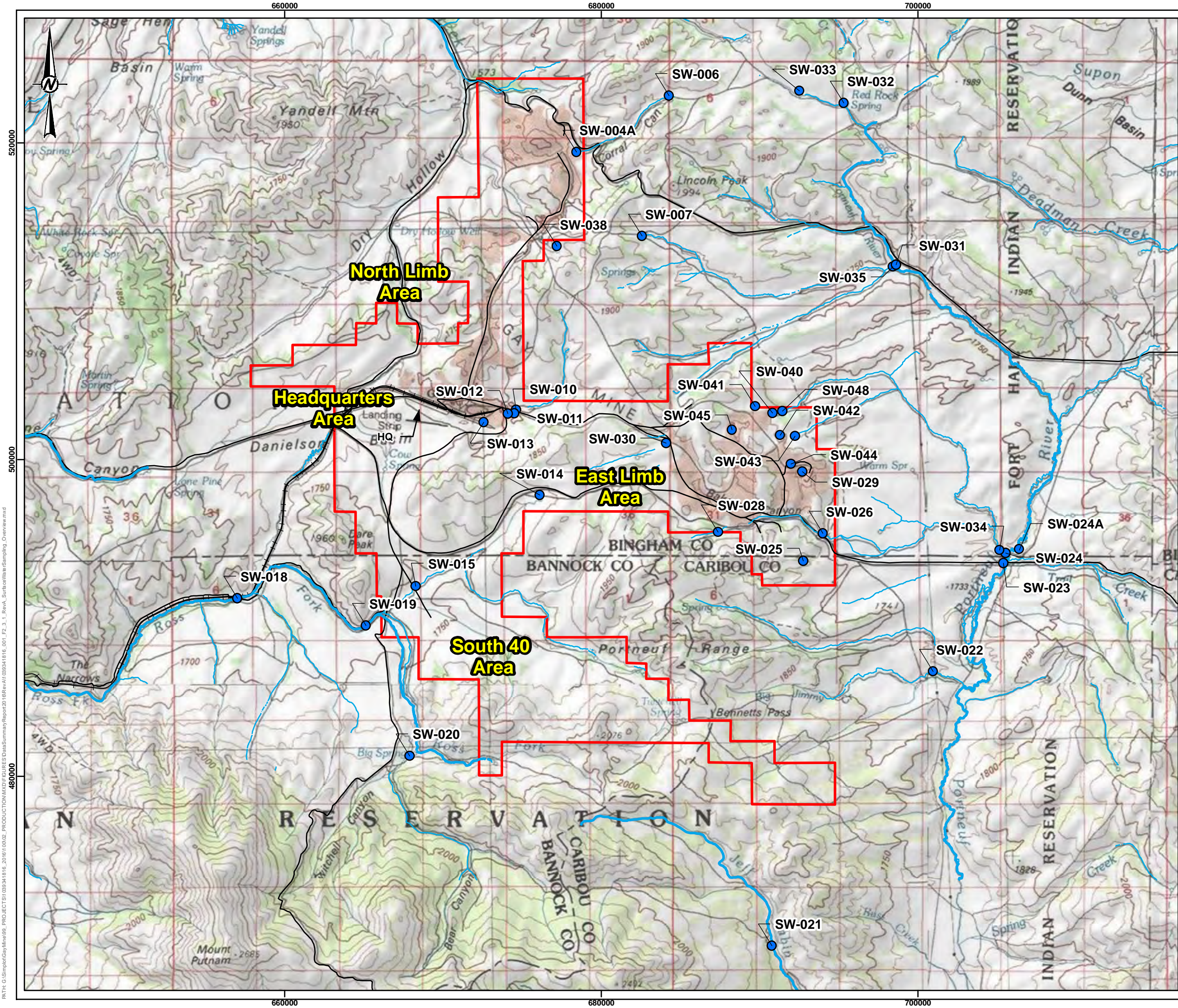
CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	DC	
APPROVED	JC	



PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>2.1-6</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n





- LEGEND**
- Surface Water Sampling Location
  - Major Stream/River
  - Minor / Perennial Waterways
  - Road
  - Railroad
  - CERCLA Site Boundary

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.
3. BROWN SHADING ON THIS FIGURE REPRESENTS THE USGS INTERPRETATION OF GENERALIZED DISTURBED MINING AREAS AS OF 1981. THIS SHADING WAS ON THE ORIGINAL TOPOGRAPHICAL MAP USED FOR THIS FIGURE AND DOES NOT REPRESENT ACTUAL DISTURBED AREAS OR AREAS DISTURBED AFTER 1981.

**REFERENCE(S)**

1. BING MAPS IMAGERY (2015)
2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
3. USGS-NHD (STREAMS)
4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

**PROJECT**  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

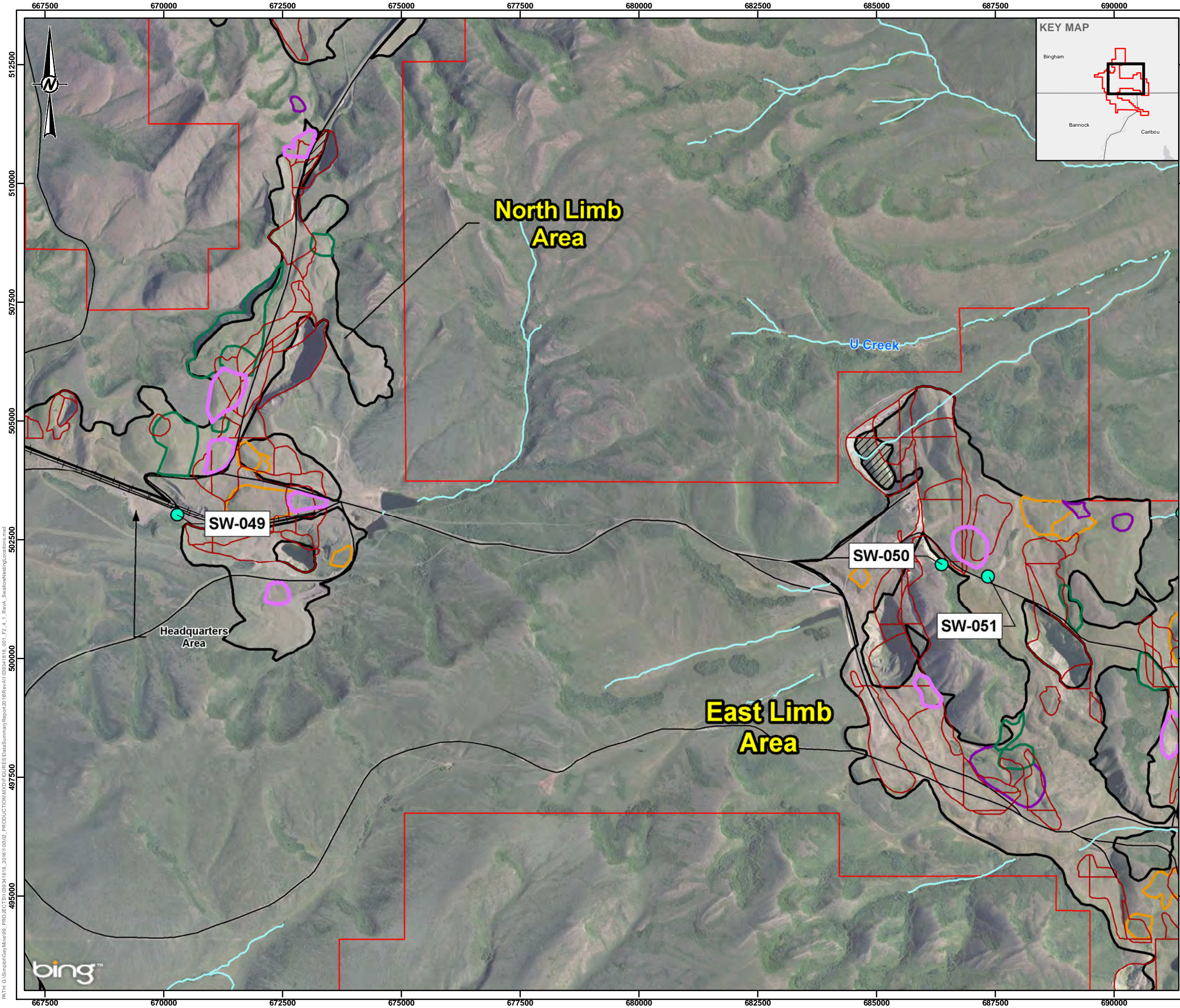
**TITLE**  
SURFACE WATER SAMPLING LOCATIONS 2016

CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	



PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 2.3-1





**LEGEND**

- Mud Sample Location
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined

**Mill Shale Piles (as of 1993)**

- No Top Soil or Reseeding
- Partial Top Soil and/or Reseeding
- Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

1. BING MAPS IMAGERY (2017)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**

FMC CORPORATION/J.R.SIMPLLOT COMPANY

**PROJECT**

FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

**TITLE**

**SWALLOW NESTING SAMPLING LOCATIONS**

CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	

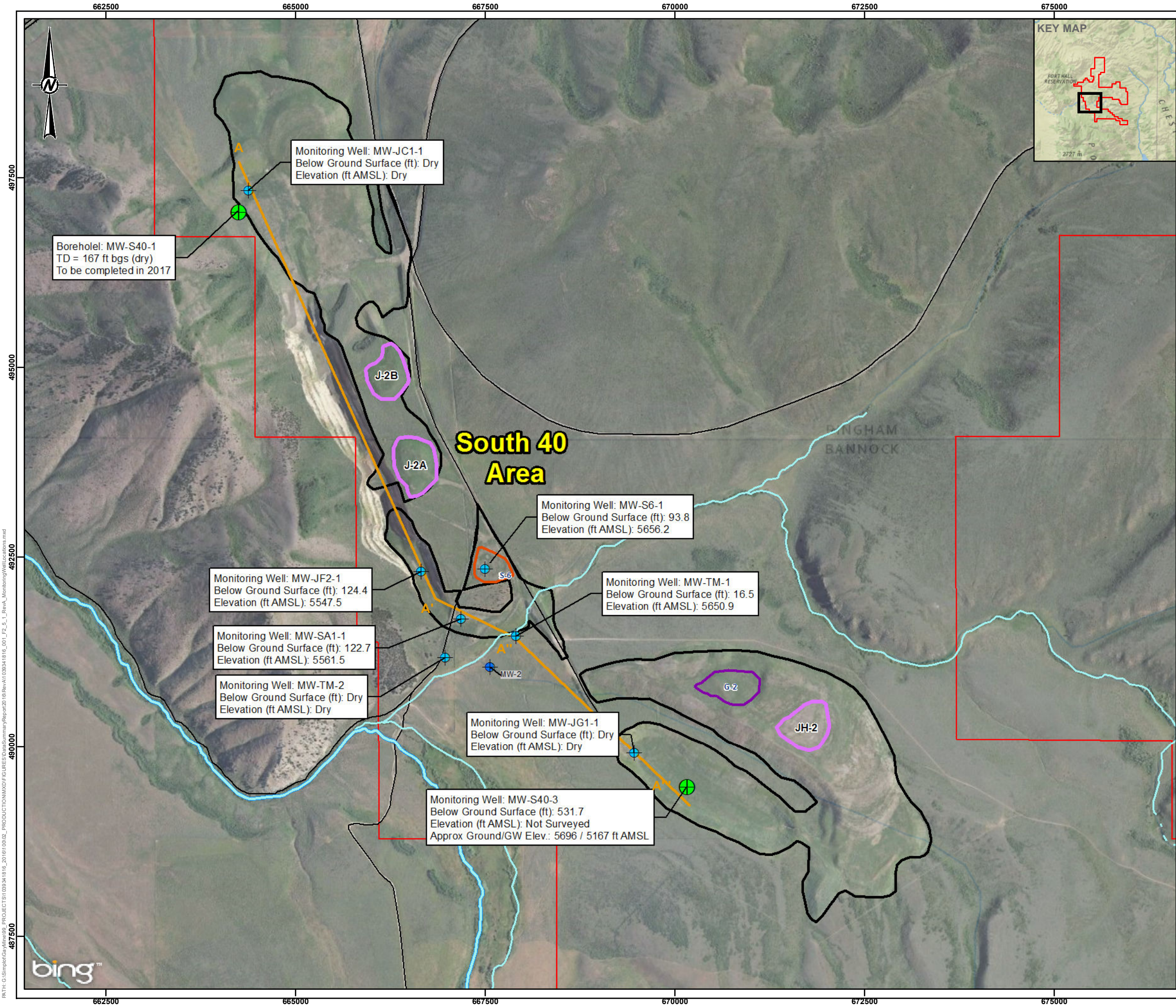
PROJECT NO. 1039341816	CONTROL 001	REV. A
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**FIGURE 2.4-1**

PATH: G:\Simplot\GayMine99\_PROJECT\SVI\_030341816\_2016\1000M\_PRODUCT\TDM\X\FIGURES\SDataSummary\Report\2016\RevA\1039341816\_001\_F2\_4\_1\_RevA\_SwallowNestingLocations.mxd

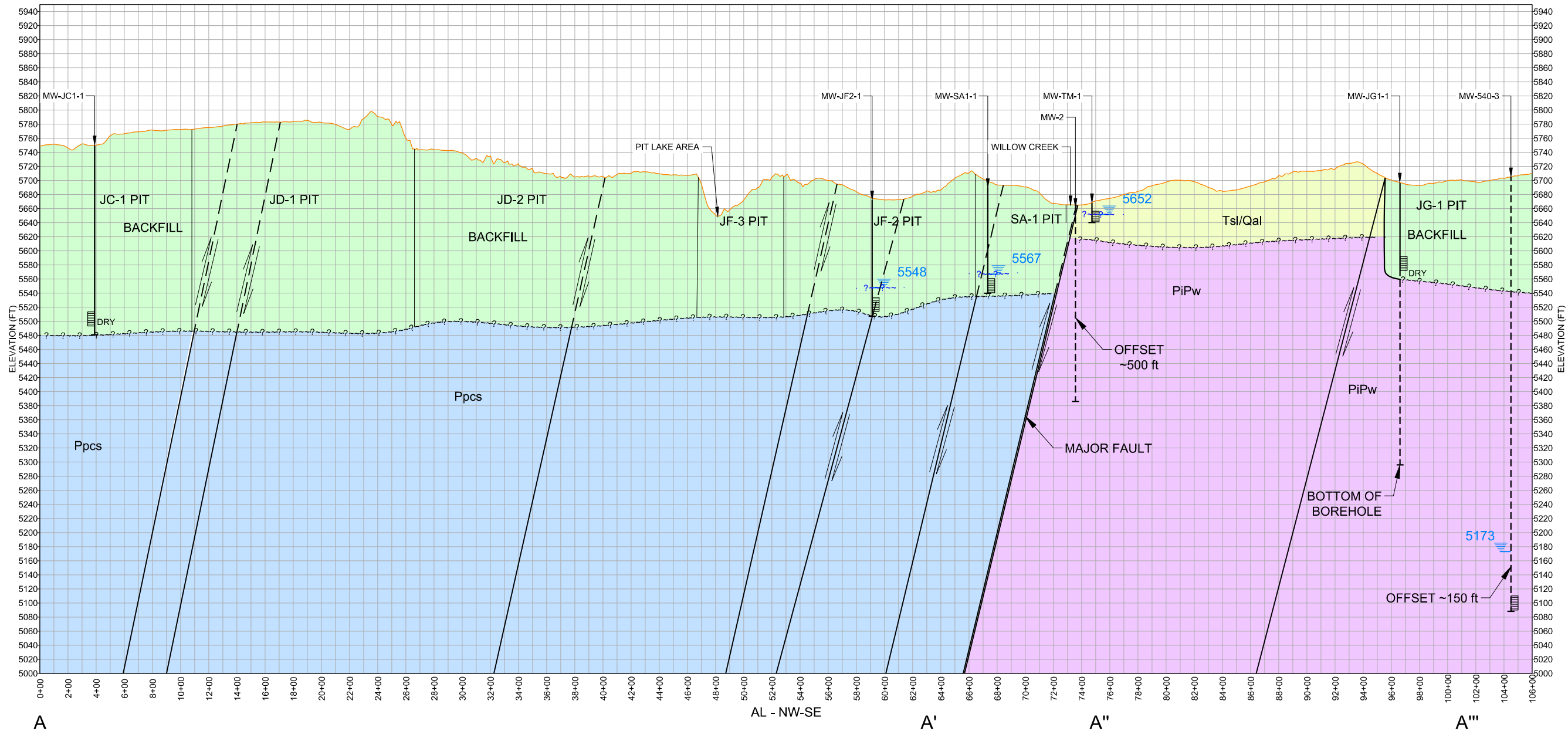
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B







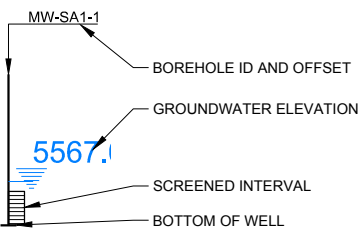
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#### NOTE(S)

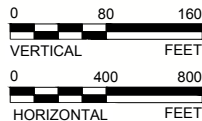
1. FAULT LOCATIONS OBTAINED FROM PREVIOUS GEOLOGIC INVESTIGATIONS, WHICH ESTIMATED THE SURFACE EXPRESSION OF THE FAULT THROUGH BACKFILL MATERIAL (WHERE APPLICABLE). LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THE DIP ANGLES ARE ROUGH ESTIMATES AND ONLY INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF THE FAULTS.
2. REFER TO FIGURE 2.5-1 FOR PLAN VIEW LOCATION OF THE CROSS-SECTION.
3. MW-1 IS A HISTORIC WELL DRILLED SOMETIME PRIOR TO 1986. IT IS INCLUDED TO VERIFY THE THICKNESS OF THE UNCONSOLIDATED DEPOSITS OUTSIDE OF THE PIT AREAS. THE WELL IS LOCATED APPROXIMATELY 500 FT SOUTHWEST OF THE SECTION LINE. NO OTHER HISTORIC BOREHOLES WITH AVAILABLE WELL LOGS WERE IDENTIFIED.
4. MW-540-3 LOCATION IS ESTIMATED FROM GPS DATA, WELL NOT SURVEYED TO DATE.

#### LEGEND



<div></div>	PIT BACKFILL MATERIAL
<div></div>	WELLS FORMATION
<div></div>	PHOSPHORIA FORMATION - CHERTY SHALE MEMBER
<div></div>	SALT LAKE FORMATION (OR RECENT UNCONSOLIDATED DEPOSITS)

NOT FOR CONSTRUCTION  
DRAFT



CLIENT  
SIMPLOT

CONSULTANT



YYYY-MM-DD	2017-02-09
DESIGNED	JP
PREPARED	REDMOND
REVIEWED	JP
APPROVED	DD

PROJECT  
REMEDIAL INVESTIGATION  
GAY MINE  
POCATELLO, ID  
TITLE  
**GEOLOGIC CROSS SECTION**

PROJECT NO.  
1039341816

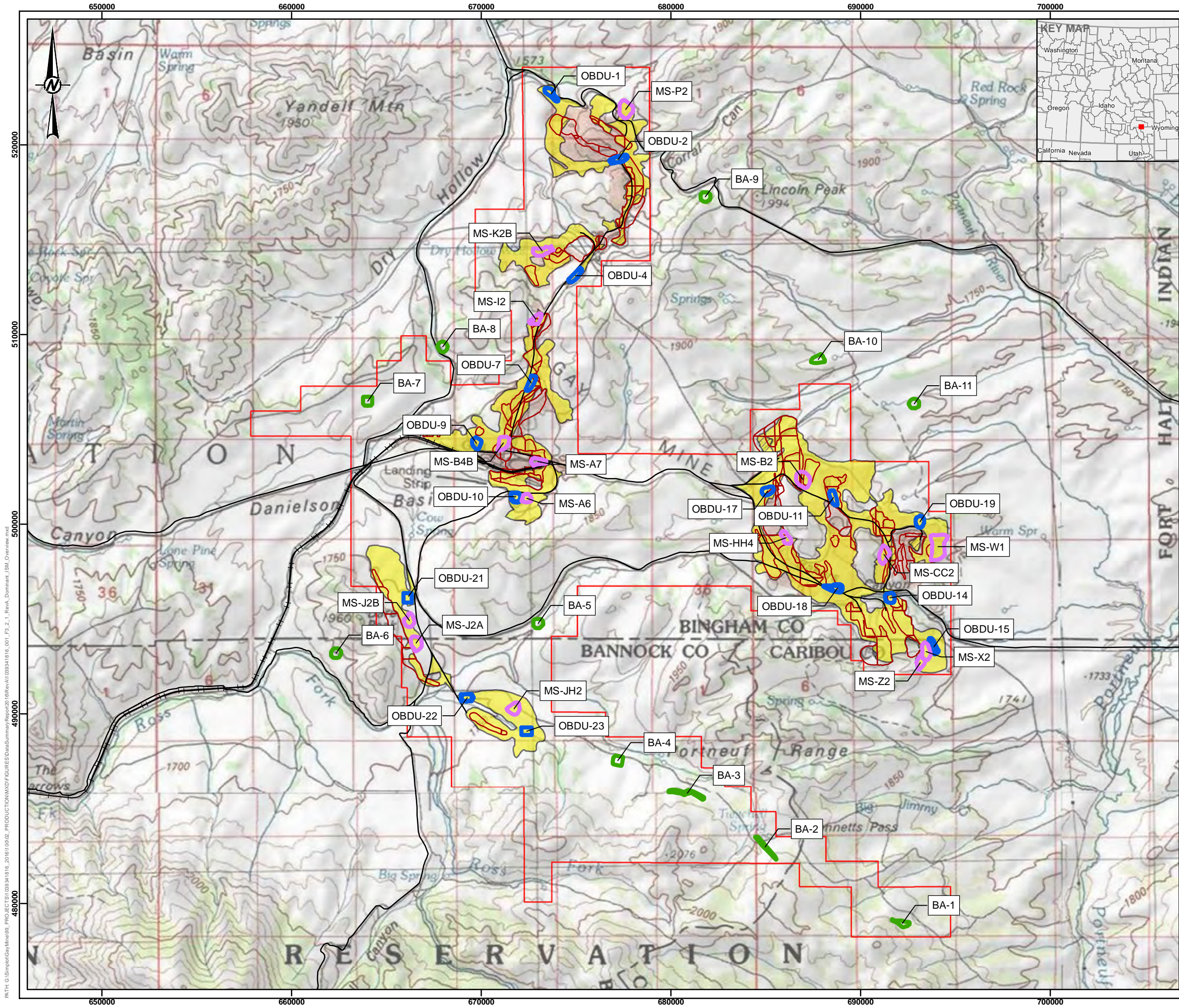
PHASE  
001.900

REV.  
A

FIGURE  
2.5-2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D





**LEGEND**

- Overburden Decision Unit Sampled
- Mill Shale Pile Decision Unit Sampled
- Soil Background Decision Unit Sampled
- CERCLA Site Boundary
- Outline of Pit as Mined

**Reclamation Area**

- 1994 Reclamation Area
- 1994 Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

3. BROWN SHADING ON THIS FIGURE REPRESENTS THE USGS INTERPRETATION OF GENERALIZED DISTURBED MINING AREAS AS OF 1981. THIS SHADING WAS ON THE ORIGINAL TOPOGRAPHICAL MAP USED FOR THIS FIGURE AND DOES NOT REPRESENT ACTUAL DISTURBED AREAS OR AREAS DISTURBED AFTER 1981.

**REFERENCE(S)**

1. NATIONAL GEOGRAPHIC AND I-CUBED (2009, TOPO)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR, HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
DOMINANT ISM VEGETATION SAMPLES COLLECTED IN 2016

CONSULTANT	YYYY-MM-DD	2017-02-23
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	JC	
APPROVED	JC	

PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-1

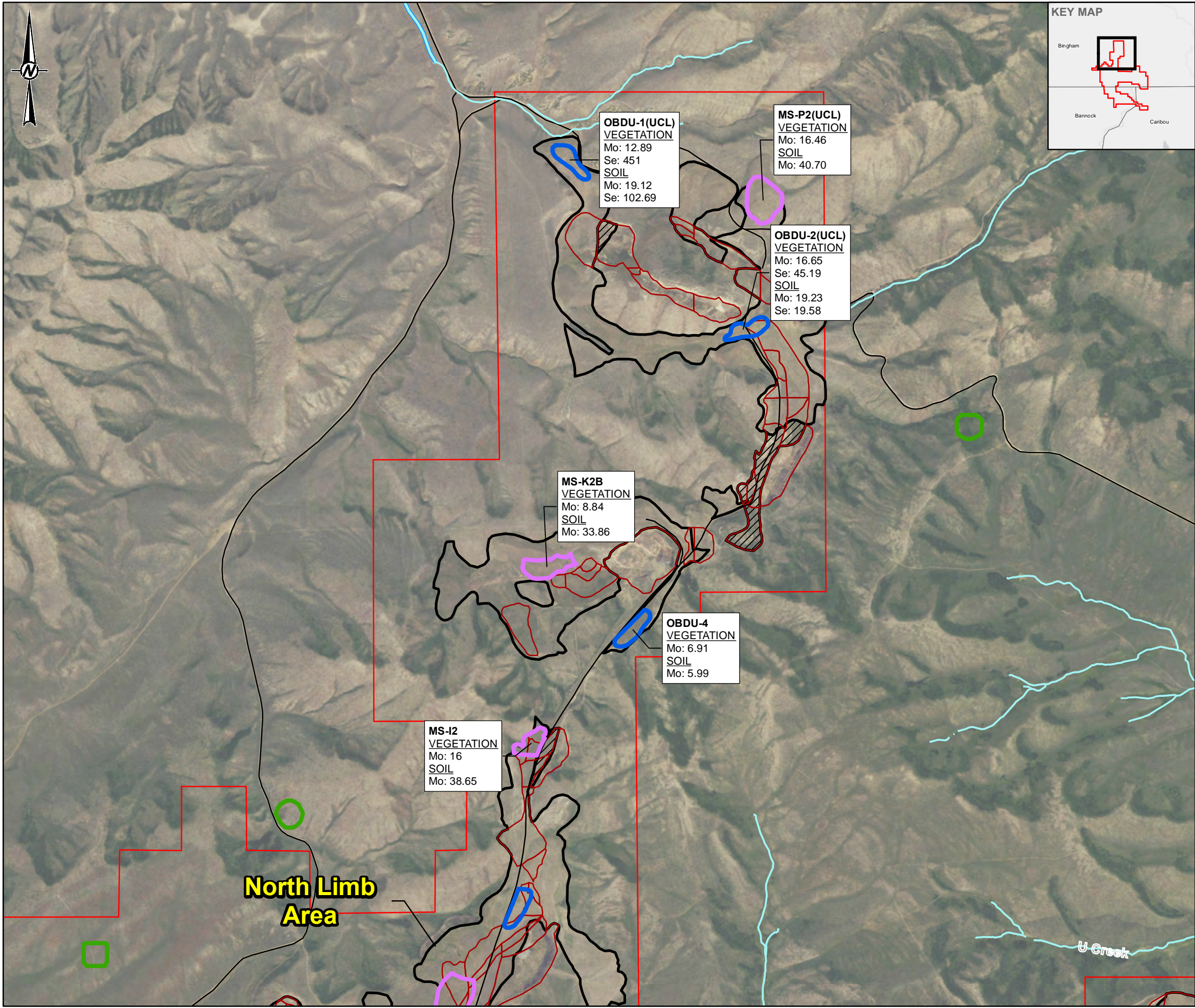


PATH: G:\Simplot\GayMine99\_PROJECTS\1039341816\_2016\1039341816\_001\_F3\_2\_1\_RevA\_Dominant\_ISM\_Overview.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



PATH: G:\Simplot\GayMine99\_PROJECT\SV\030341816\_2016\10002\_PRODUCTION\MXD\FIGURES\DATA\SUMMARY\Report2016RevA\030341816\_001\_F3\_2\_1a\_RevA\_Dominant\_ISM\_NorthLimb.mxd



**LEGEND**

- Overburden Decision Unit Sampled
- Mill Shale Pile Decision Unit Sampled
- Soil Background Decision Unit Sampled
- Major Stream/River
- Minor / Perennial Waterways
- Road
- CERCLA Site Boundary
- Outline of Pit as Mined
- Reclamation Area (as of 1994)**
  - Reclamation Area
  - Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg

**NOTE(S)**

- SOIL VALUES ARE FROM THE DEEP 2MM SIZE FRACTION RESULTS IN MG/KG DRY WEIGHT
- ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RAAPPROACH (APPENDIX B TO THE RI WORK PLAN)
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- FOR CALCULATED 95% UCL VALUES, NON-DETECTED VALUES WERE USED AS THE MDL WHEN ALL 3 VALUES WERE THE SAME AND NO 95% UCL CAN BE CALCULATED, THE SINGLE VALUE IS SHOWN FOR THE 95% UCL
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310-1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

**TITLE**  
**DOMINANT ISM VEGETATION EXCEEDANCES OF  
ECOLOGICAL SCREENING LEVELS – NORTH LIMB**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

**Golder Associates**

PROJECT NO.  
1039341816

CONTROL  
001

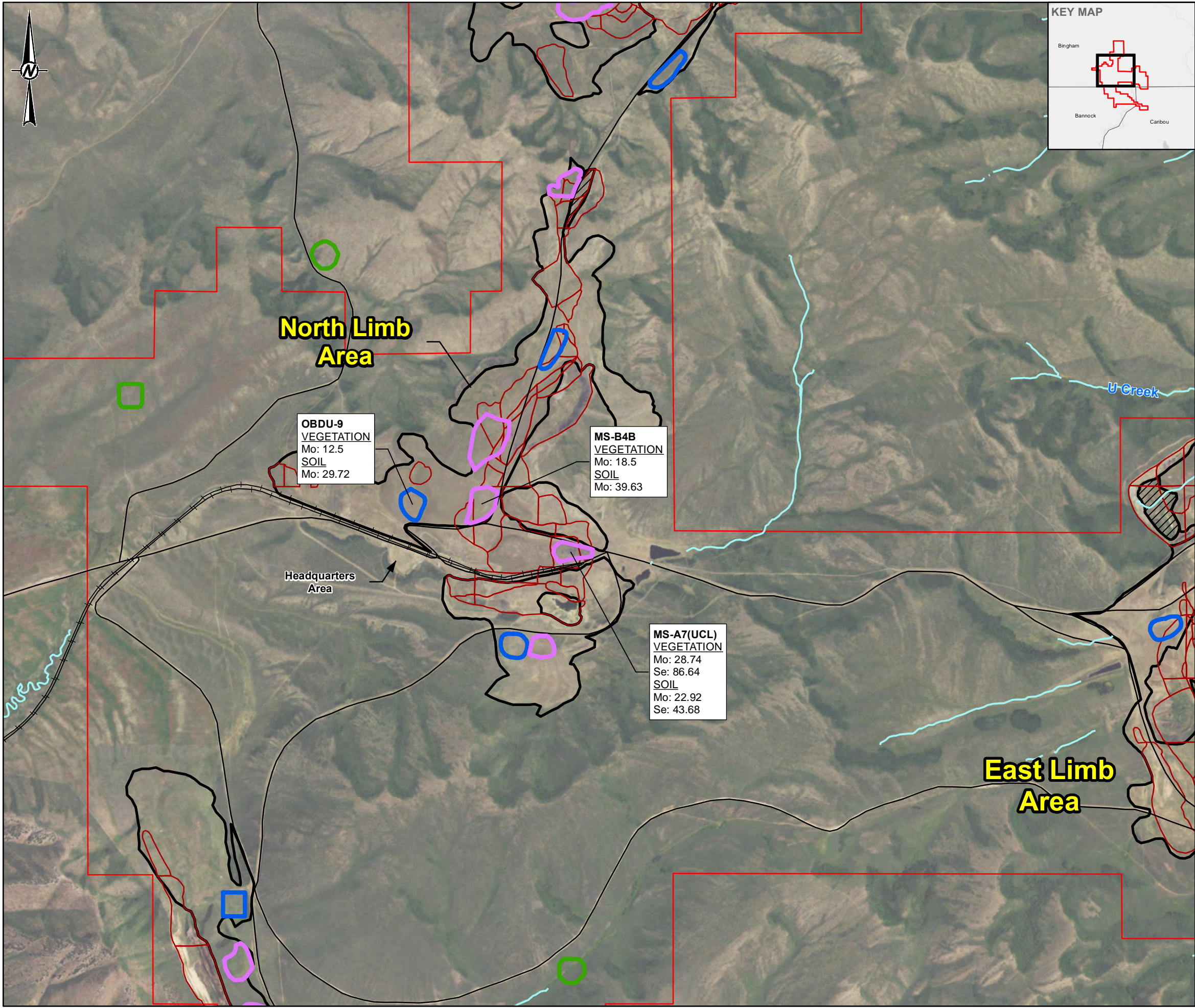
REV.  
A

FIGURE  
**3.2-1a**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11in



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LEGEND

Overburden Decision Unit Sampled

Mill Shale Pile Decision Unit Sampled

Reclamation Area (as of 1994)

Analyte	Ecological Screening Level	Units
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg

NOTE(S)

1. SOIL VALUES ARE FROM THE DEEP 2MM SIZE FRACTION RESULTS IN MG/KG DRY WEIGHT

2. ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RAAPPROACH (APPENDIX B TO THE RI WORK PLAN)

3. ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS

4. FOR CALCULATED 95% UCL VALUES, NON-DETECTED VALUES WERE USED AS THE MDL. WHEN ALL 3 VALUES WERE THE SAME AND NO 95% UCL CAN BE CALCULATED, THE SINGLE VALUE IS SHOWN FOR THE 95% UCL.

5. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

6. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

REFERENCE(S)

1. BING MAPS IMAGERY (2017)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310-1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT

FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT

FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE

**DOMINANT ISM VEGETATION EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS – HEADQUARTERS AREA**

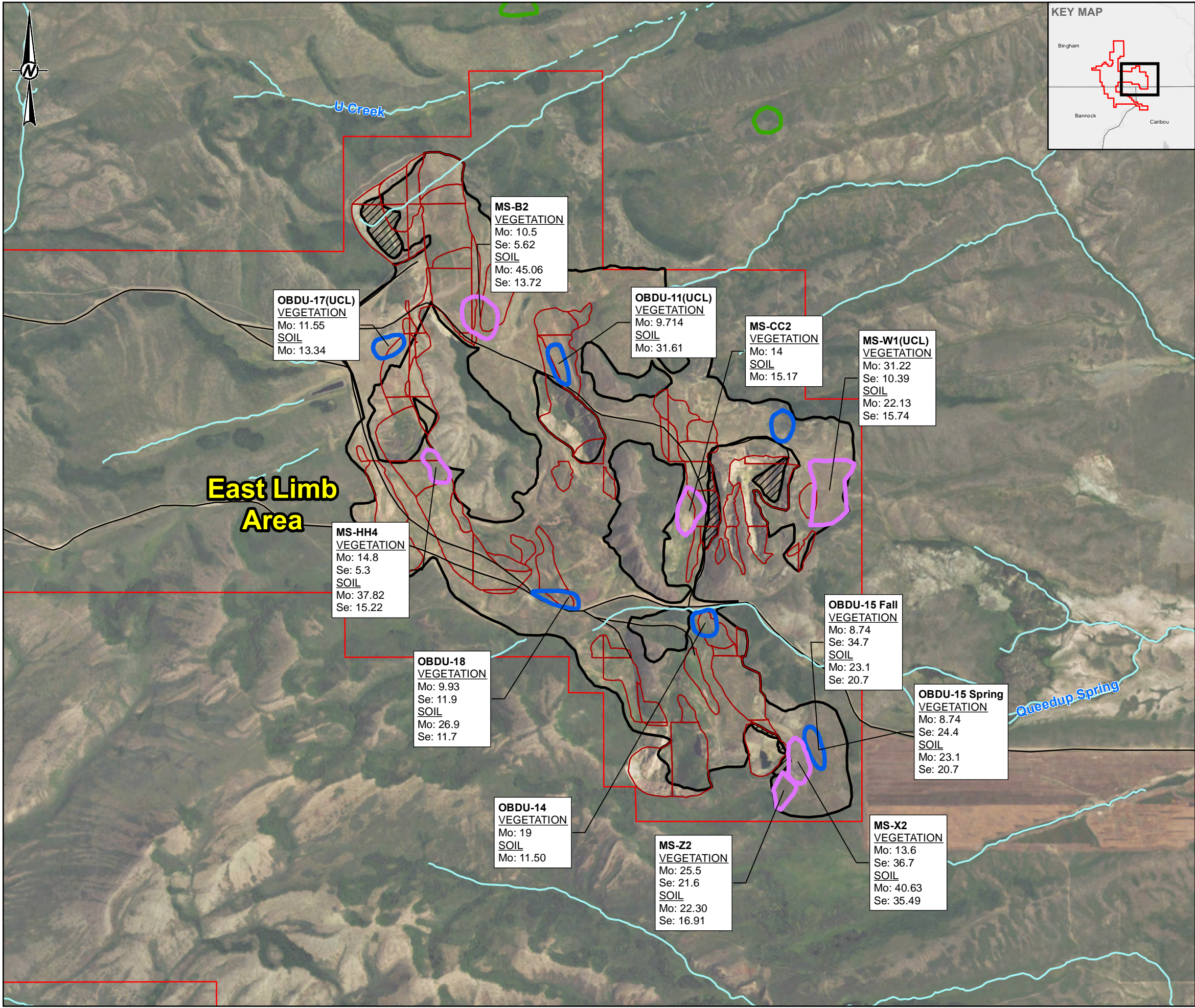
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11in



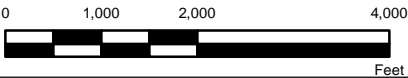
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**LEGEND**

- Overburden Decision Unit Sampled
- Mill Shale Pile Decision Unit Sampled
- Soil Background Decision Unit Sampled
- Minor / Perennial Waterways
- Road
- CERCLA Site Boundary
- Outline of Pit as Mined
- Reclamation Area (as of 1994)**
- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg



**NOTE(S)**

- SOIL VALUES ARE FROM THE DEEP 2MM SIZE FRACTION RESULTS IN MG/KG DRY WEIGHT
- ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RAAPPROACH (APPENDIX B TO THE RI WORK PLAN)
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- FOR CALCULATED 95% UCL VALUES, NON-DETECTED VALUES WERE USED AS THE MDL. WHEN ALL 3 VALUES WERE THE SAME AND NO 95% UCL CAN BE CALCULATED, THE SINGLE VALUE IS SHOWN FOR THE 95% UCL.
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310-1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

**PROJECT**  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

**TITLE**  
DOMINANT ISM VEGETATION EXCEEDANCES OF  
ECOLOGICAL SCREENING LEVELS – EAST LIMB

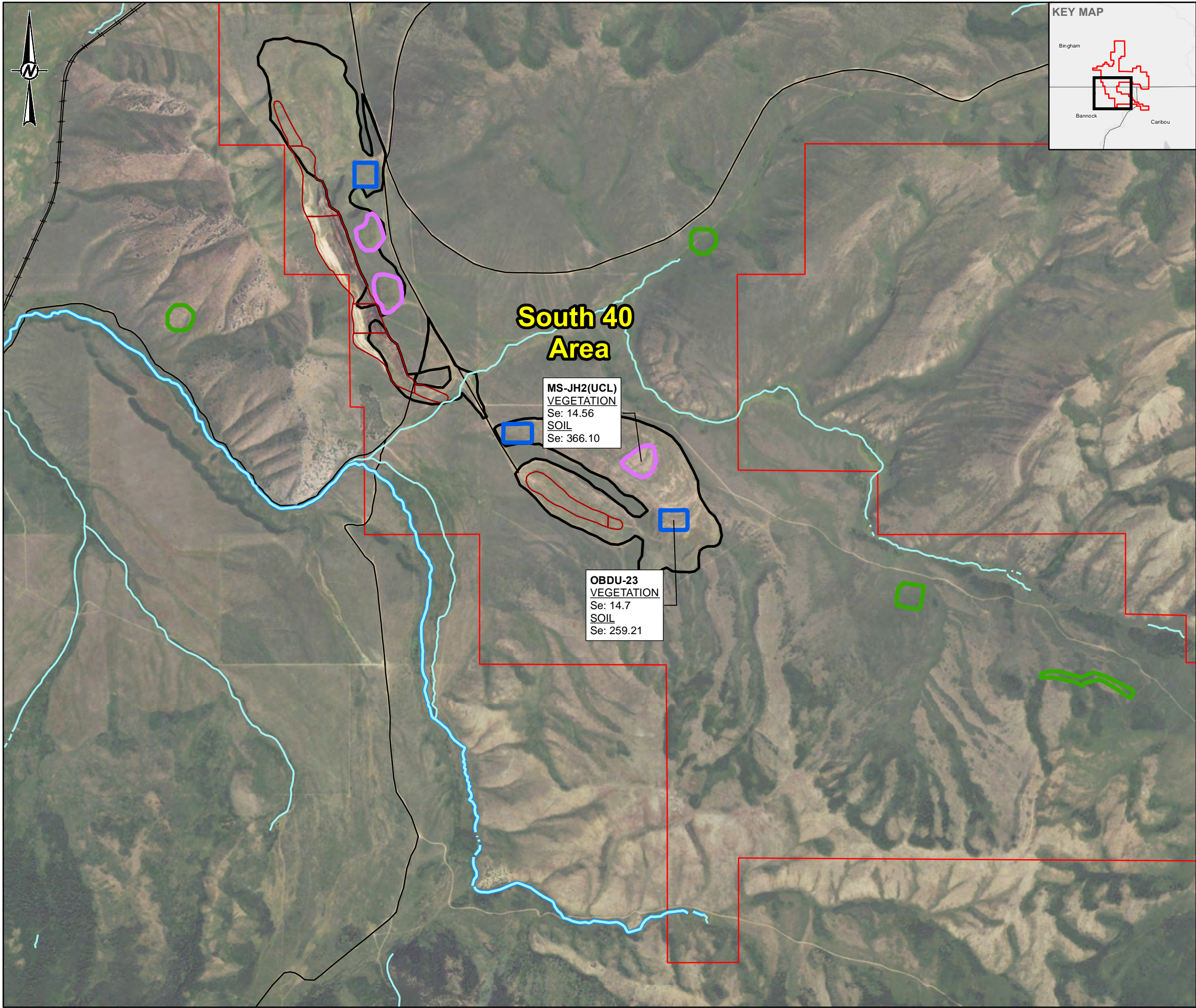
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11in



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LEGEND

Overburden Decision Unit Sampled

Mill Shale Pile Decision Unit Sampled

Soil Background Decision Unit Sampled

Major Stream/River

Minor / Perennial Waterways

Road

Railroad

CERCLA Site Boundary

Outline of Pit as Mined

Reclamation Area (as of 1994)

Reclamation Area

Analyte	Ecological Screening Level	Units
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg

NOTE(S)

1. SOIL VALUES ARE FROM THE DEEP 2MM SIZE FRACTION RESULTS IN MG/KG DRY WEIGHT

2. ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)

3. ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS

4. FOR CALCULATED 95% UCL VALUES, NON-DETECTED VALUES WERE USED AS THE MDL. WHEN ALL 3 VALUES WERE THE SAME AND NO 95% UCL CAN BE CALCULATED, THE SINGLE VALUE IS SHOWN FOR THE 95% UCL.

5. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

6. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

REFERENCE(S)

1. BING MAPS IMAGERY (2017)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310-1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT

FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT

FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE

**DOMINANT ISM VEGETATION EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS –SOUTH 40**

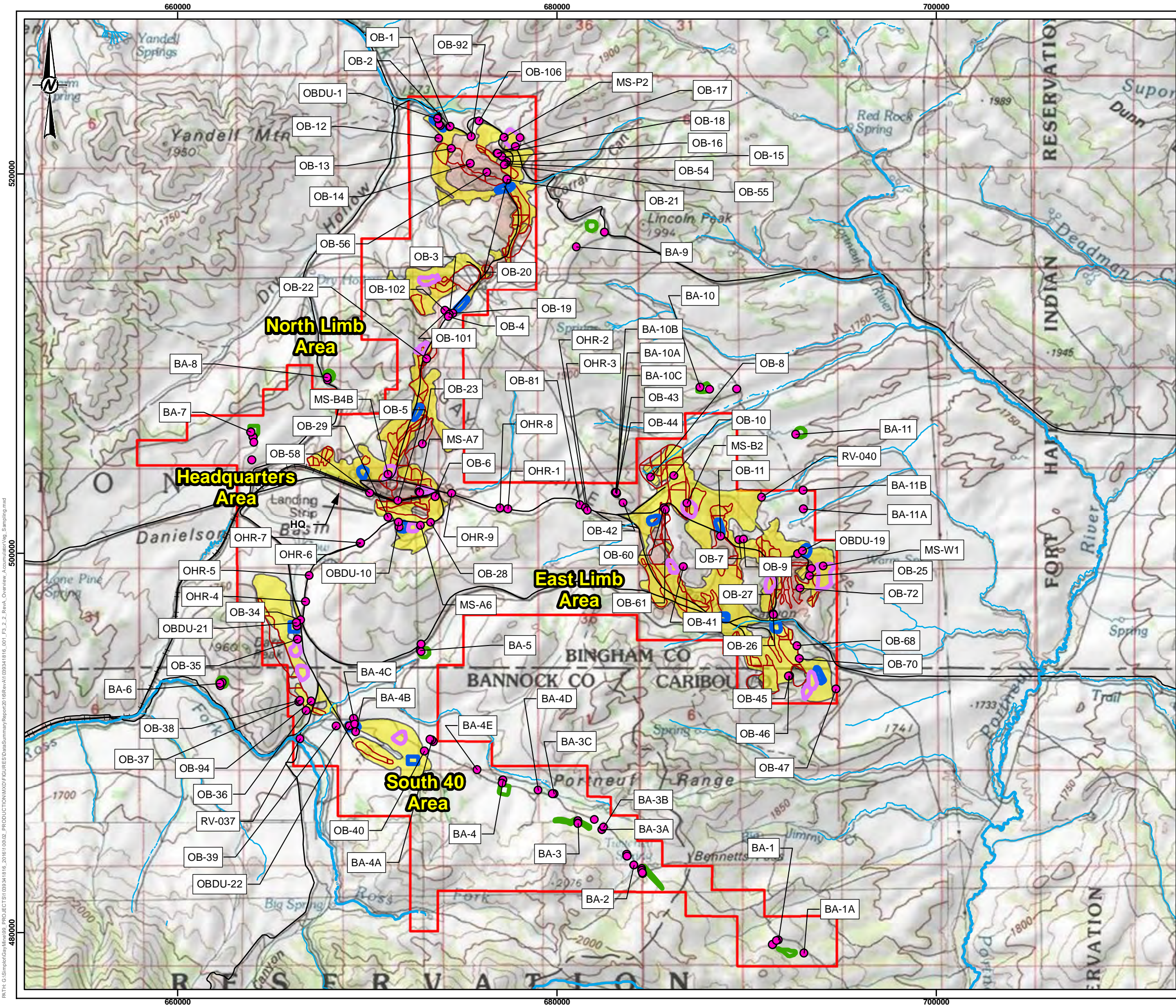
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

PROJECT NO.	CONTROL	REV.	FIGURE
1039341816	001	A	<b>3.2-1d</b>

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in





**LEGEND**

- Accumulator Vegetation Sampling Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Soil Background Decision Unit
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Outline of Pit as Mined
- CERCLA Site Boundary

**Reclamation Area**

- 1994 Reclamation Area
- 1994 Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.
3. BROWN SHADING ON THIS FIGURE REPRESENTS THE USGS INTERPRETATION OF GENERALIZED DISTURBED MINING AREAS AS OF 1981. THIS SHADING WAS ON THE ORIGINAL TOPOGRAPHICAL MAP USED FOR THIS FIGURE AND DOES NOT REPRESENT ACTUAL DISTURBED AREAS OR AREAS DISTURBED AFTER 1981.

**REFERENCE(S)**

1. BING MAPS IMAGERY (2015)
2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
3. USGS-NHD (STREAMS)
4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

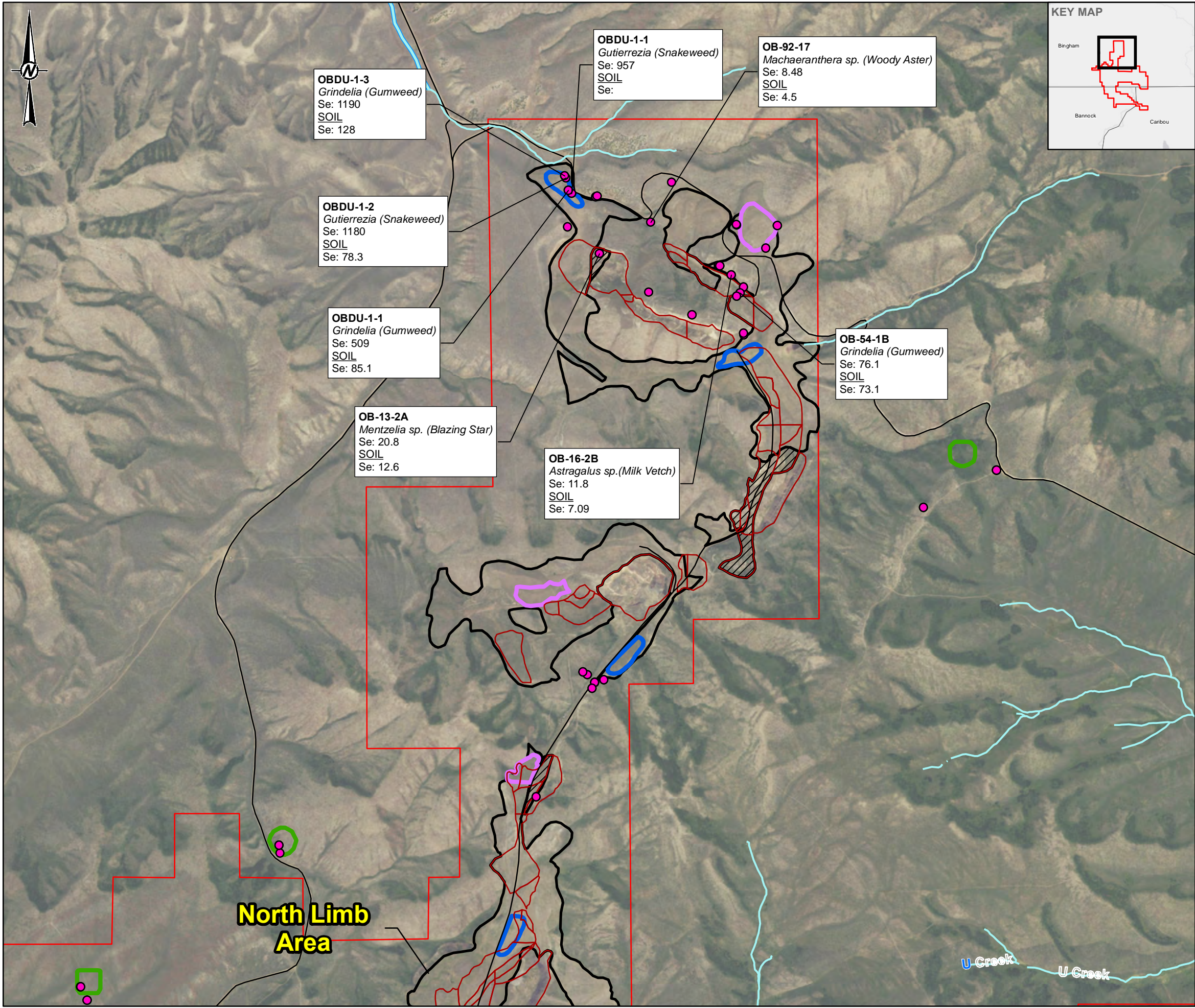
CLIENT		
FMC CORPORATION/J.R.SIMPLLOT COMPANY		
PROJECT		
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID		
TITLE		
SELENIUM ACCUMULATOR VEGETATION SPECIES COLLECTED IN 2016		
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	
PROJECT NO.	CONTROL	REV.
1039341816	001	A
FIGURE		3.2-2

PATH: G:\Simpllot\Gay Mine\Area\PROJECTS\1039341816\_2016\10002\_PRODUCTION\MXD\FIGURES\SummaryReport\16RevA\1039341816\_001\_F3\_2\_2\_RevA\_Overview\_Accumulator\_Veg\_Sampling.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



PATH: G:\Simplot\Gay\Mine99\_PROJECT\SV\030341816\_2016\10002\_PRODUCTION\MXD\FIGURES\SummaryReport\016RevA\030341816\_001\_F3\_2\_2a\_RevA\_AccumulatorVeg\_NorthLimb.mxd



**LEGEND**

- Selenium Accumulator Vegetation Sample Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Soil Background Decision Unit
- Outline of Pit as Mined
- Major Stream/River
- Minor / Perennial Waterways
- Road
- CERCLA Site Boundary
- Reclamation Area (as of 1994)
- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Selenium (Se)	5	mg/kg

**NOTE(S)**

- REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
- ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**SELENIUM ACCUMULATOR VEGETATION EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS – NORTH LIMB**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

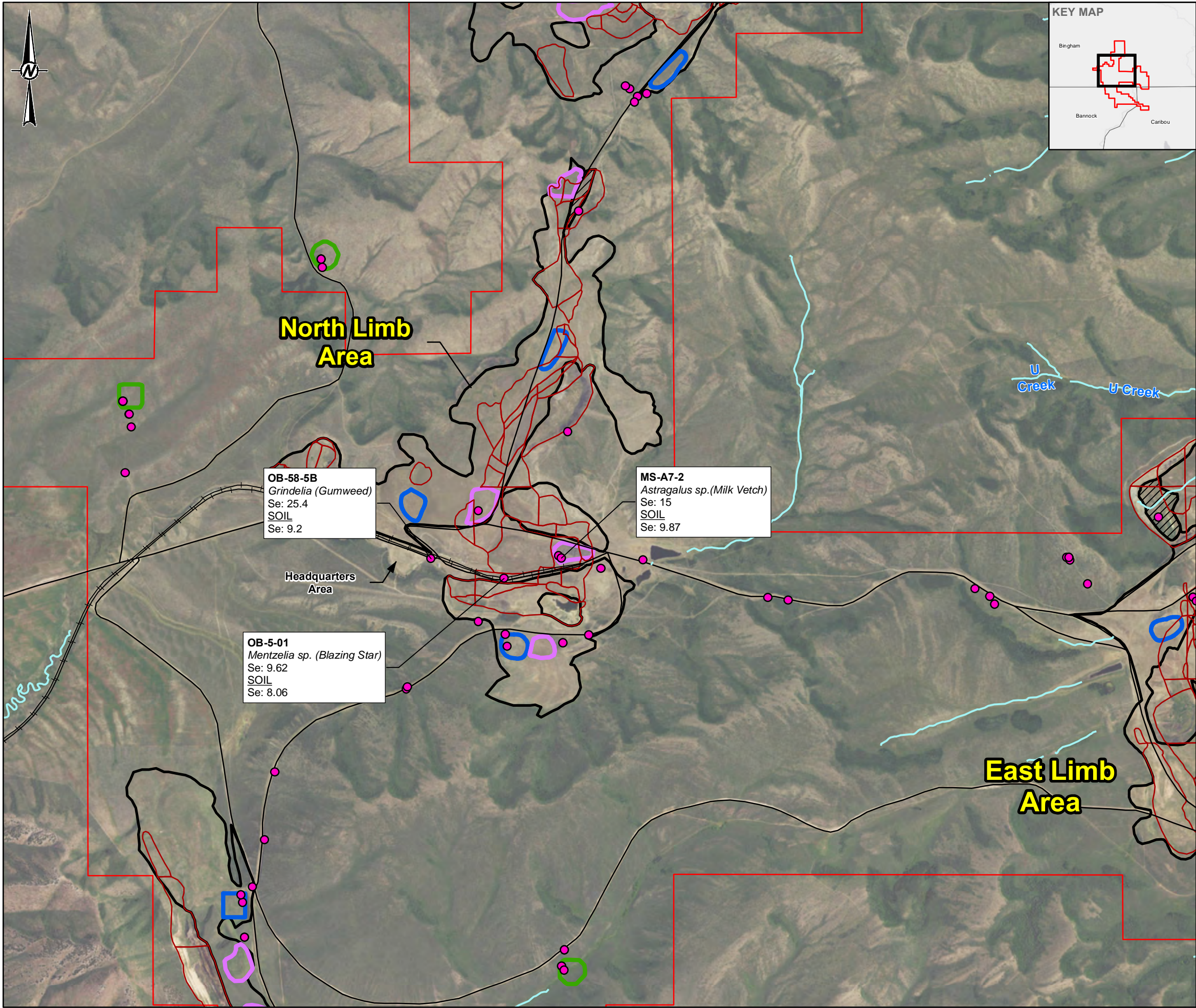
PROJECT NO. 1039341816 CONTROL 001 REV. A

FIGURE 3.2-2a

1in



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**LEGEND**

- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Soil Background Decision Unit
- Outline of Pit as Mined
- Minor / Perennial Waterways
- Road
- Railroad
- CERCLA Site Boundary
- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Selenium (Se)	5	mg/kg

**NOTE(S)**

- REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
- ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
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- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

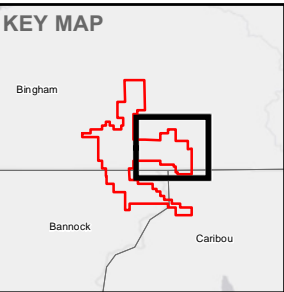
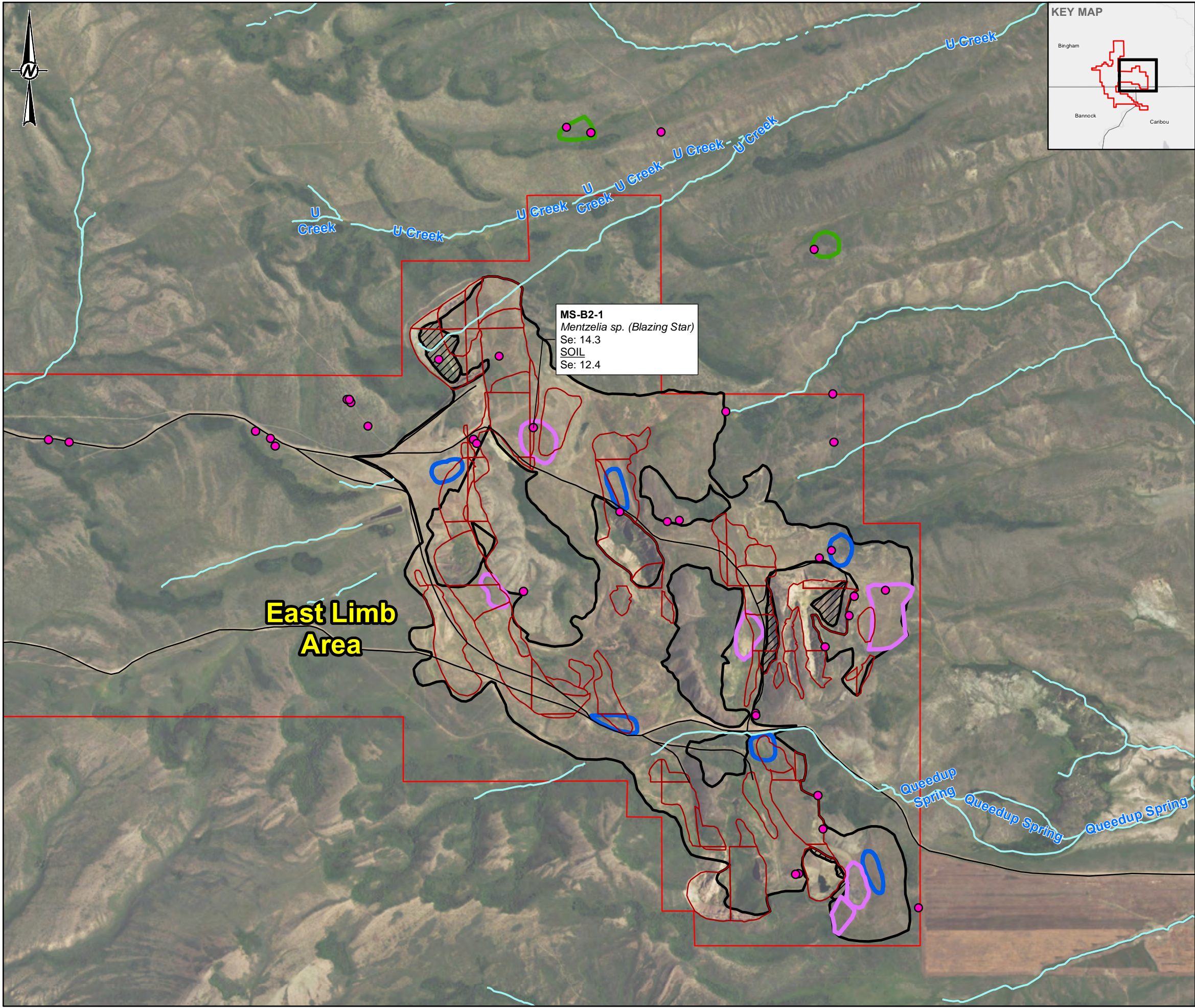
TITLE  
**SELENIUM ACCUMULATOR VEGETATION EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS - HEADQUARTERS AREA**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-2b

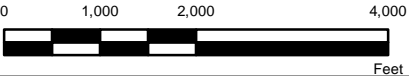


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- LEGEND**
- Selenium Accumulator Vegetation Sample Location
  - Overburden Decision Unit
  - Mill Shale Pile Decision Unit
  - Soil Background Decision Unit
  - Outline of Pit as Mined
  - Minor / Perennial Waterways
  - Road
  - CERCLA Site Boundary
  - Reclamation Area
  - Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden
- Reclamation Area (as of 1994)**
- Reclamation Area
  - Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Selenium (Se)	5	mg/kg



- NOTE(S)**
- REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
  - ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)
  - ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
  - THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
  - USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.
- REFERENCE(S)**
- BING MAPS IMAGERY (2017)
  - IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
  - USGS-NHD (STREAMS)
  - U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
  - GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
  - COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**SELENIUM ACCUMULATOR VEGETATION EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS – EAST LIMB**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

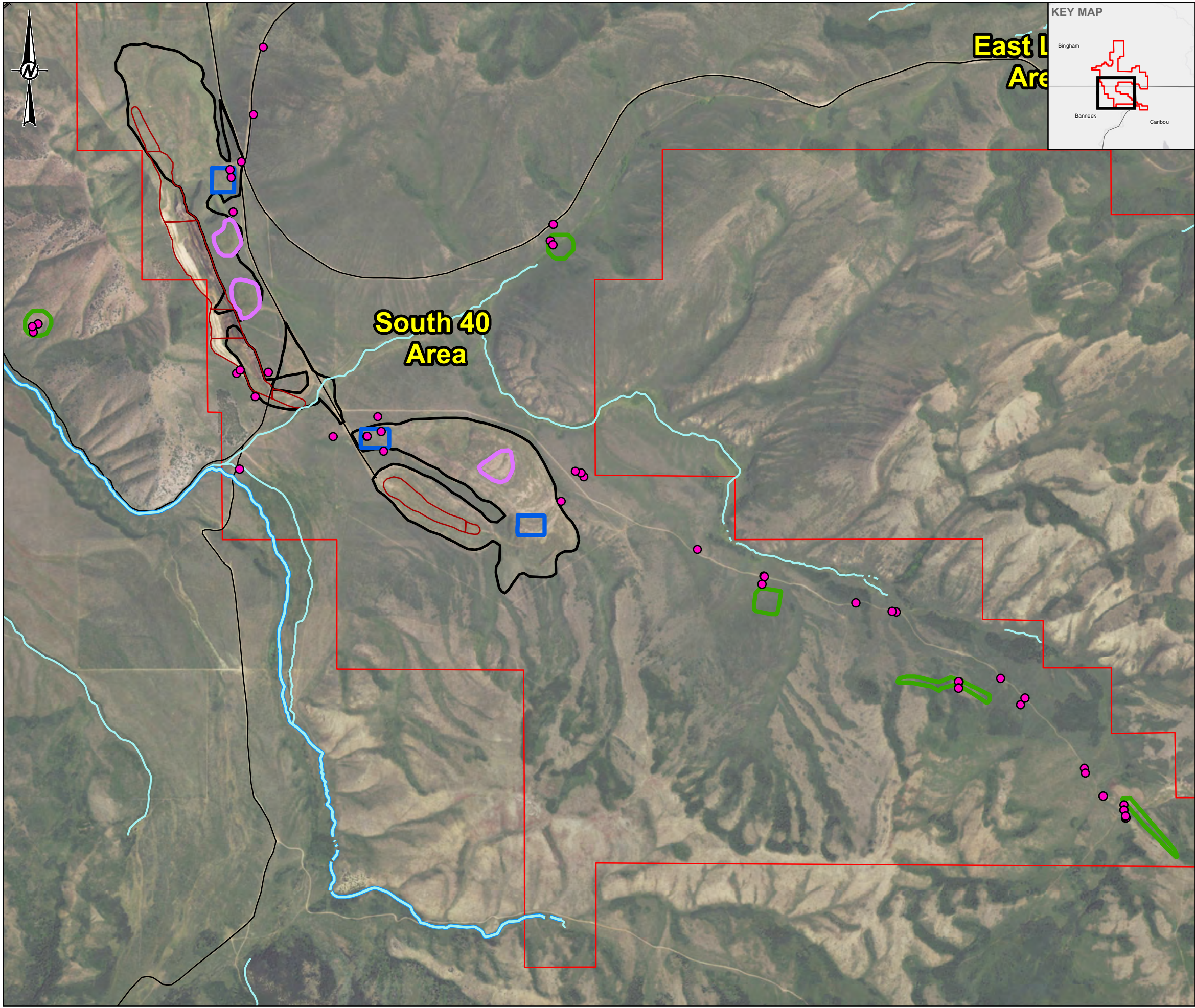


PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-2c

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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**LEGEND**

- Selenium Accumulator Vegetation Sample Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Soil Background Decision Unit
- Outline of Pit as Mined
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- CERCLA Site Boundary
- Reclamation Area (as of 1994)
- Reclamation Area

Analyte	Ecological Screening Level	Units
Selenium (Se)	5	mg/kg



**NOTE(S)**

- REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
- ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**SELENIUM ACCUMULATOR VEGETATION EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS – SOUTH 40**

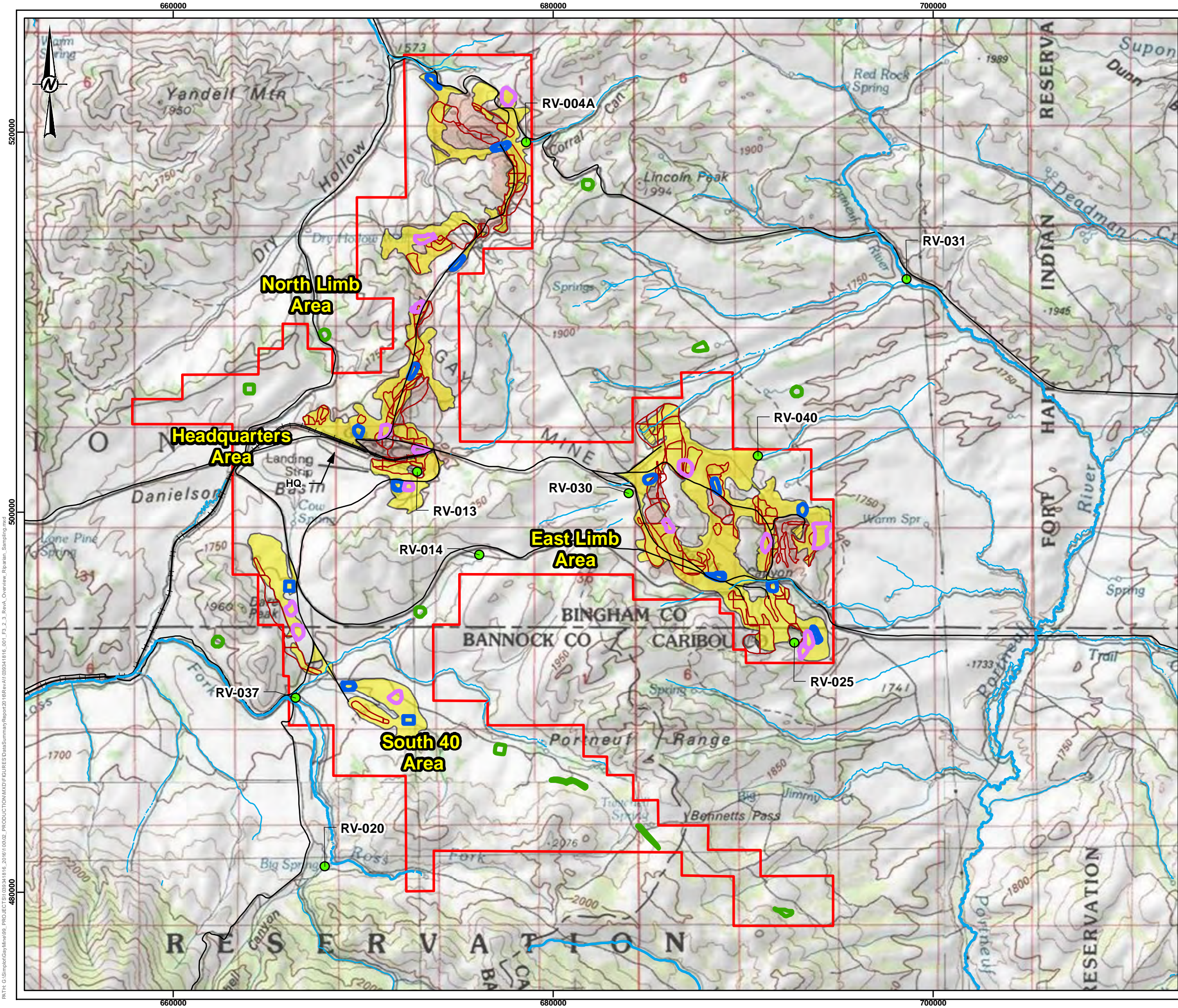
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-2d

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n



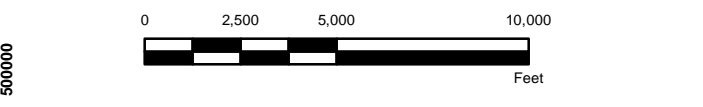


**LEGEND**

- Riparian Vegetation Sampling Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Soil Background Decision Unit
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Outline of Pit as Mined
- CERCLA Site Boundary

**Reclamation Area**

- 1994 Reclamation Area
- 1994 Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden



**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

3. BROWN SHADING ON THIS FIGURE REPRESENTS THE USGS INTERPRETATION OF GENERALIZED DISTURBED MINING AREAS AS OF 1981. THIS SHADING WAS ON THE ORIGINAL TOPOGRAPHICAL MAP USED FOR THIS FIGURE AND DOES NOT REPRESENT ACTUAL DISTURBED AREAS OR AREAS DISTURBED AFTER 1981.

**REFERENCE(S)**

1. BING MAPS IMAGERY (2015)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**

FMC CORPORATION/J.R.SIMPLOT COMPANY


**PROJECT**

FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

**TITLE**

**RIPARIAN VEGETATION SPECIES COLLECTED IN 2016**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



PROJECT NO.  
1039341816

CONTROL  
001

REV.  
A

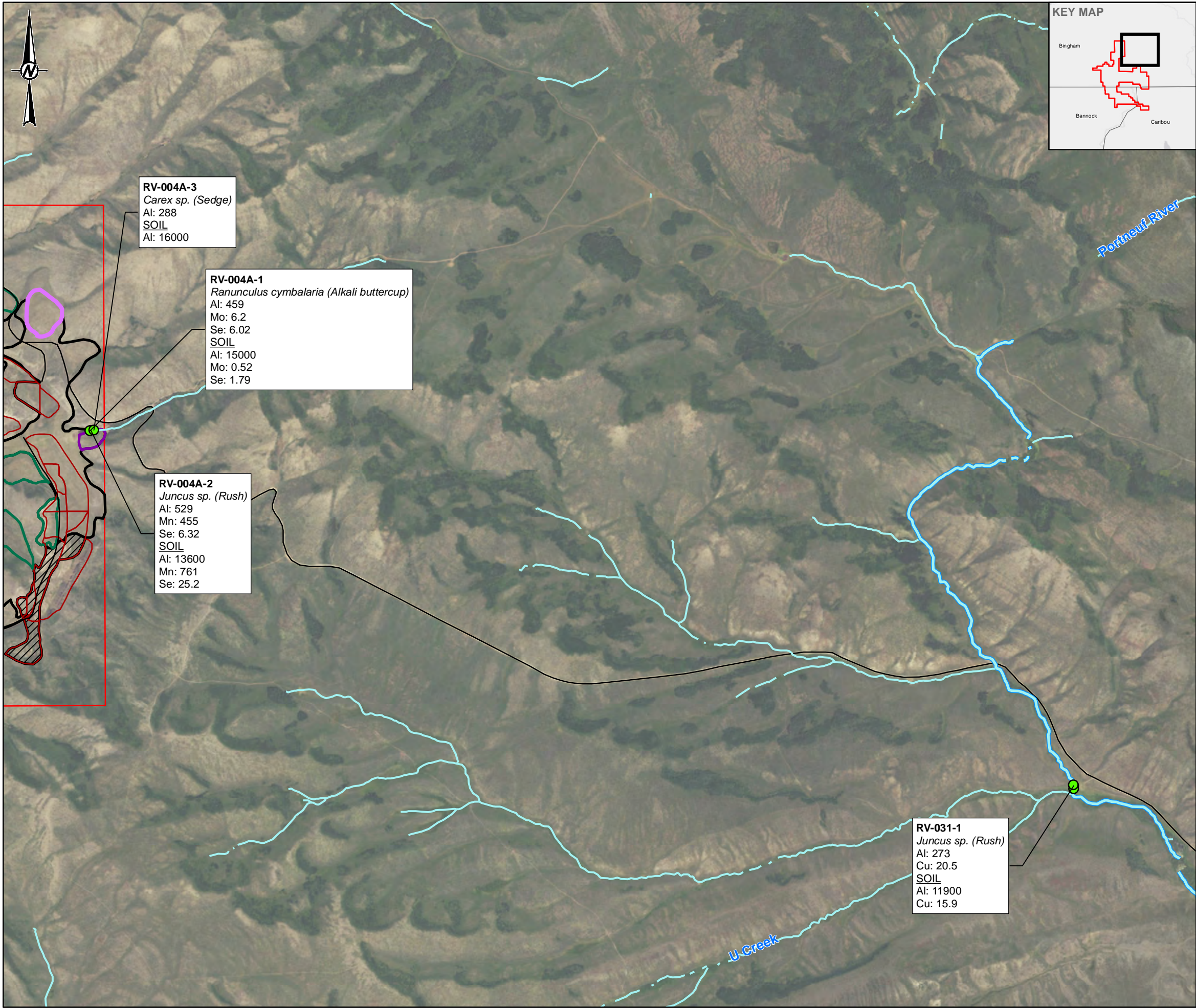
FIGURE  
**3.2.3**

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



PATH: G:\Simplot\Gay\Mine99\_PROJECT\SV\030341816\_2016\1\0002\_PRODUCTION\MXD\FIGURES\DataSummary\Report2016RevA\039341816\_001\_F3\_2\_3a\_RevA\_Reprint\_Exeedance\_Ecological\_NorthLimb.mxd



LEGEND

Riparian Vegetation Sampling Location

Major Stream/River

Minor / Perennial Waterways

Road

Mill Shale Pile Decision Unit

CERCLA Site Boundary

Outline of Pit as Mined

**Mill Shale Piles (as of 1993)**

Partial Top Soil and/or Reseeding

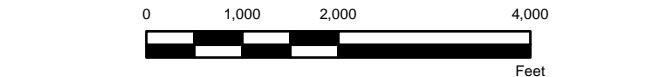
Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

Reclamation Area

Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Aluminum (Al)	200	mg/kg
Cadmium (Cd)	10	mg/kg
Copper (Cu)	15	mg/kg
Manganese (Mn)	400	mg/kg
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg
Zinc (Zn)	300	mg/kg



NOTE(S)  
1. ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RAAPPROACH (APPENDIX B TO THE RI WORK PLAN)  
2. N/A - NO SCREENING LEVEL AVAILABLE  
3. ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS  
4. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.  
5. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

REFERENCE(S)  
1. BING MAPS IMAGERY (2017)  
2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))  
3. USGS-NHD (STREAMS)  
4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)  
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6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
RIPARIAN VEGETATION SPECIES EXCEEDANCES OF  
ECOLOGICAL SCREENING LEVELS - EAST OF NORTH LIMB

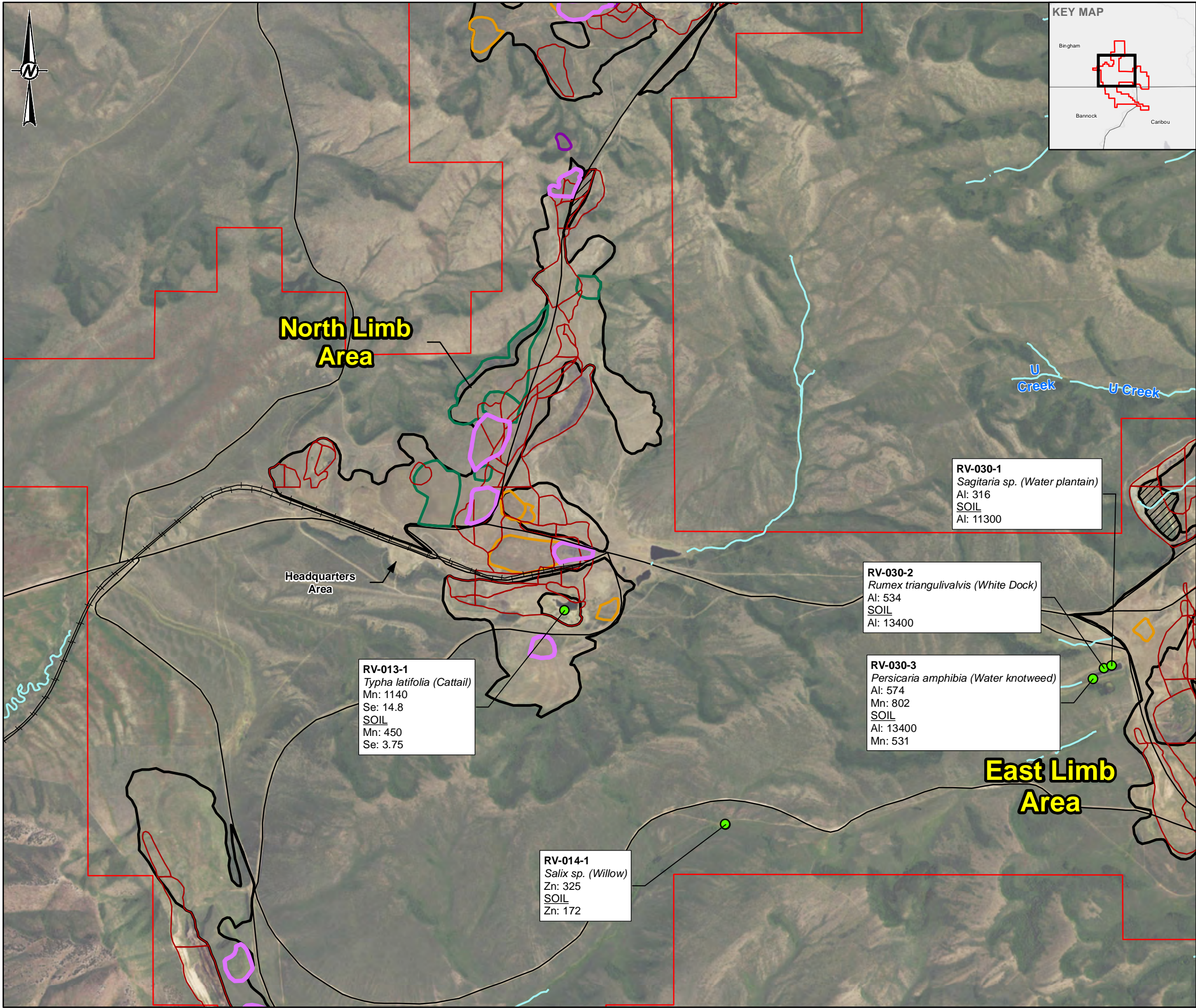
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in



PATH: G:\Simplot\GayMine99\_PROJECT\SV\_030341816\_2016\10002\_PRODUCTION\MXD\FIGURES\SummaryReport2016RevA\030341816\_001\_F3\_2\_3b\_RevA\_Riparian\_Exceedance\_Ecological\_HQArea.mxd



**LEGEND**

- Riparian Vegetation Sampling Location
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined

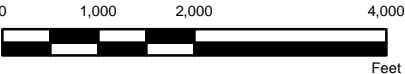
**Mill Shale Piles (as of 1993)**

- No Top Soil or Reseeding
- Partial Top Soil and/or Reseeding
- Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Aluminum (Al)	200	mg/kg
Cadmium (Cd)	10	mg/kg
Copper (Cu)	15	mg/kg
Manganese (Mn)	400	mg/kg
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg
Zinc (Zn)	300	mg/kg



**NOTE(S)**

- ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)
- N/A - NO SCREENING LEVEL AVAILABLE
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**


- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**  
FMC CORPORATION/J.R.SIMPLOT COMPANY

**PROJECT**  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

**TITLE**  
**RIPARIAN VEGETATION SPECIES EXCEEDANCES OF ECOLOGICAL SCREENING LEVELS - HEADQUARTERS AREA**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

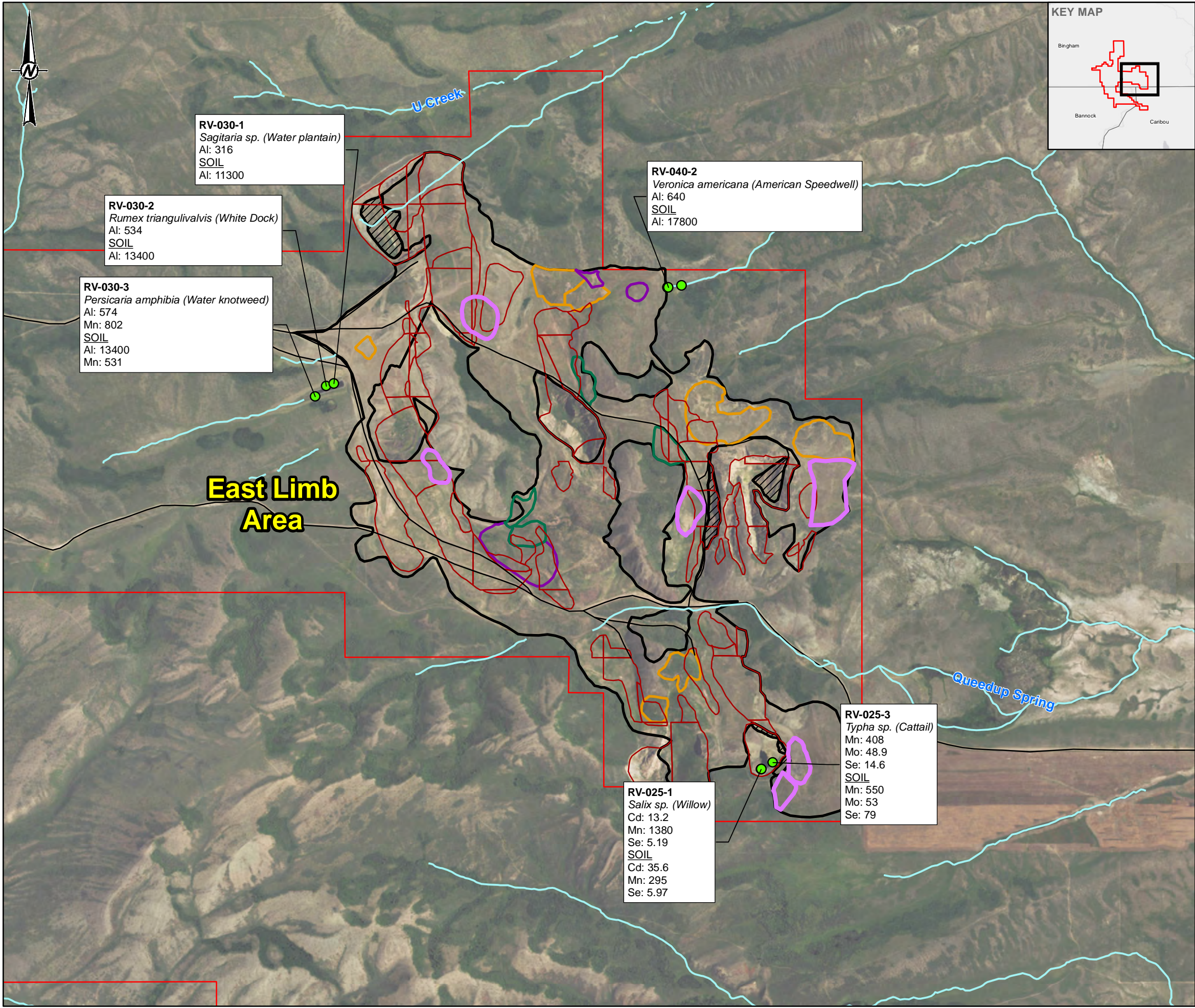


PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>3.2-3b</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



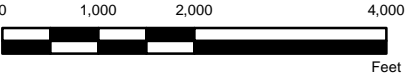
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**LEGEND**

- Riparian Vegetation Sampling Location
- Minor / Perennial Waterways
- Road
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined
- Mill Shale Piles (as of 1993)**
  - No Top Soil or Reseeding
  - Partial Top Soil and/or Reseeding
  - Top Soil Added and/or Reseeding
- Reclamation Area (as of 1994)**
  - Reclamation Area
  - Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Analyte	Ecological Screening Level	Units
Aluminum (Al)	200	mg/kg
Cadmium (Cd)	10	mg/kg
Copper (Cu)	15	mg/kg
Manganese (Mn)	400	mg/kg
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg
Zinc (Zn)	300	mg/kg



**NOTE(S)**

1. ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN)
2. N/A - NO SCREENING LEVEL AVAILABLE
3. ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
4. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
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**REFERENCE(S)**

1. BING MAPS IMAGERY (2017)
2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
3. USGS-NHD (STREAMS)
4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310-1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**  
FMC CORPORATION/J.R.SIMPLOT COMPANY

**PROJECT**  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

**TITLE**  
RIPARIAN VEGETATION SPECIES EXCEEDANCES OF  
ECOLOGICAL SCREENING LEVELS - EAST LIMB

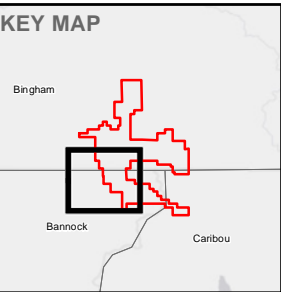
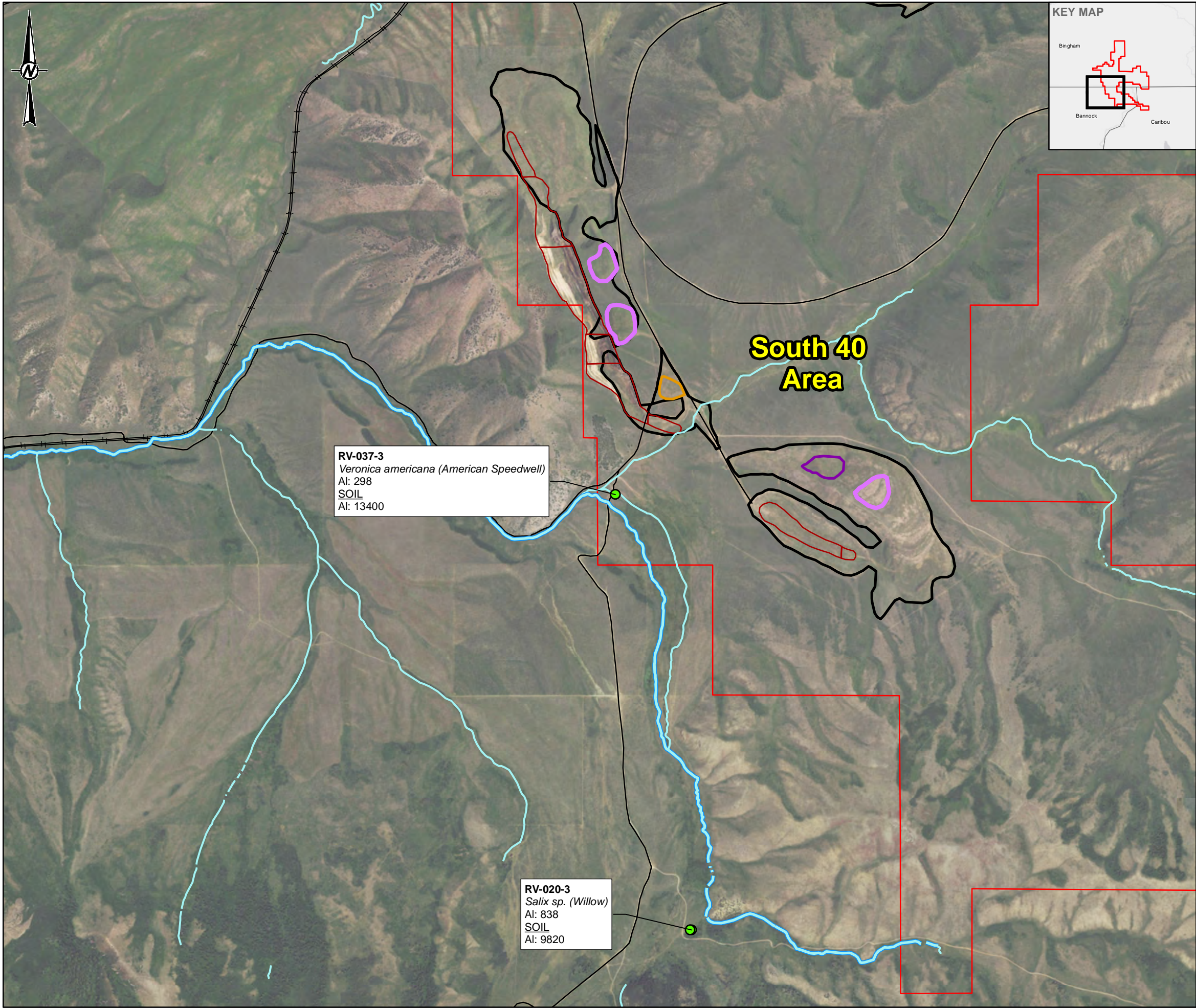
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n



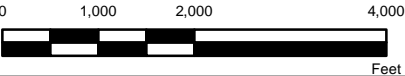
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**LEGEND**

- Riparian Vegetation Sampling Location
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined
- Mill Shale Piles (as of 1993)**
  - No Top Soil or Reseeding
  - Partial Top Soil and/or Reseeding
- Reclamation Area (as of 1994)**
  - Reclamation Area

Analyte	Ecological Screening Level	Units
Aluminum (Al)	200	mg/kg
Cadmium (Cd)	10	mg/kg
Copper (Cu)	15	mg/kg
Manganese (Mn)	400	mg/kg
Molybdenum (Mo)	5	mg/kg
Selenium (Se)	5	mg/kg
Zinc (Zn)	300	mg/kg



**NOTE(S)**

1. ECOLOGICAL SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RAAPPROACH (APPENDIX B TO THE RI WORK PLAN)
2. N/A - NO SCREENING LEVEL AVAILABLE
3. ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
4. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
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**REFERENCE(S)**

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3. USGS-NHD (STREAMS)
4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
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6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**RIPIARIAN VEGETATION SPECIES EXCEEDANCES OF  
ECOLOGICAL SCREENING LEVELS - SOUTH 40**

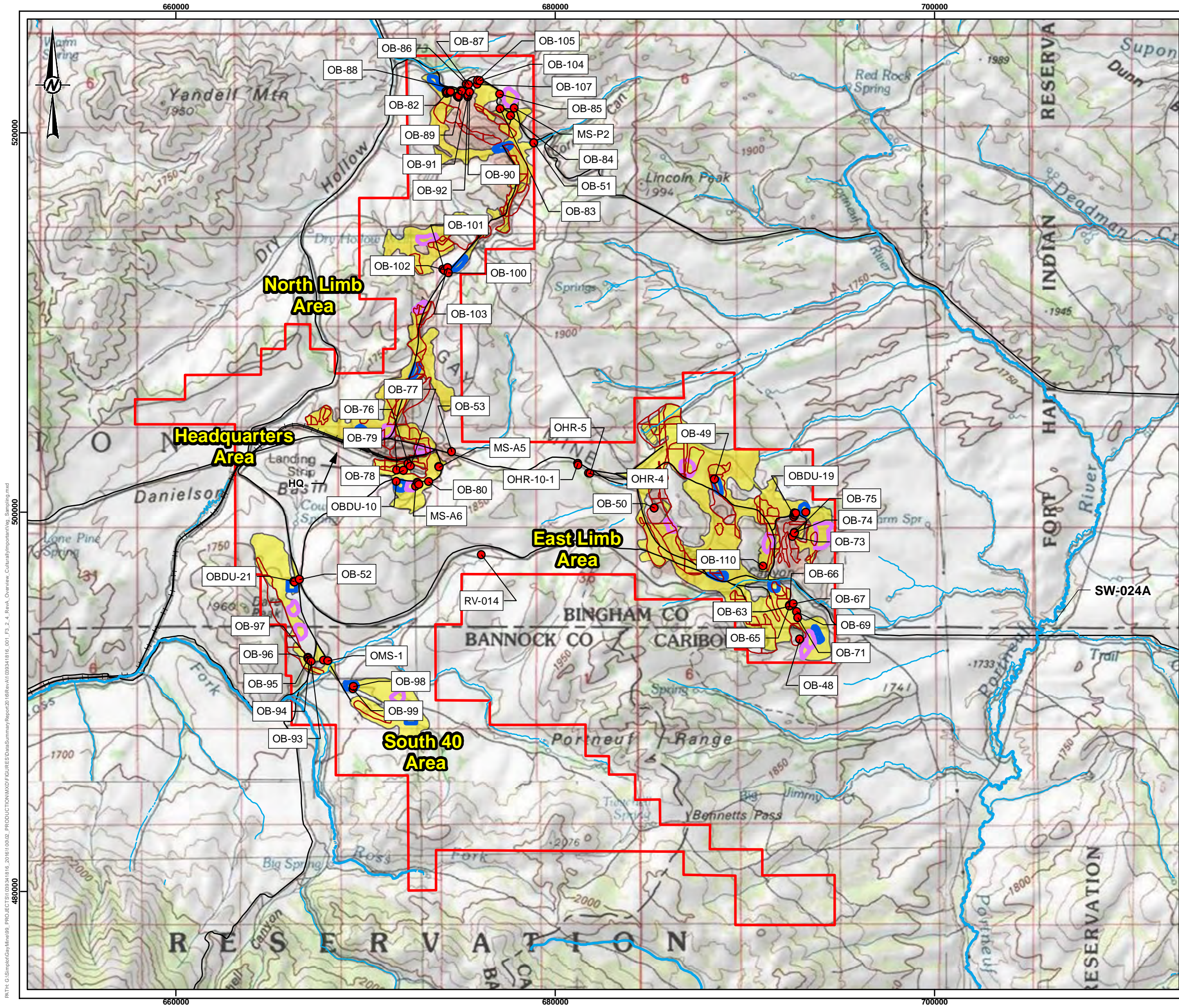
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-3d

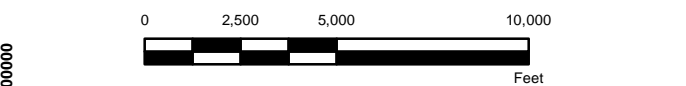
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11in





**LEGEND**

- Culturally Important Vegetation Species Sampling Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Outline of Pit as Mined
- CERCLA Site Boundary
- Reclamation Area**
  - 1994 Reclamation Area
  - 1994 Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden



**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

3. BROWN SHADING ON THIS FIGURE REPRESENTS THE USGS INTERPRETATION OF GENERALIZED DISTURBED MINING AREAS AS OF 1981. THIS SHADING WAS ON THE ORIGINAL TOPOGRAPHICAL MAP USED FOR THIS FIGURE AND DOES NOT REPRESENT ACTUAL DISTURBED AREAS OR AREAS DISTURBED AFTER 1981.

**REFERENCE(S)**

1. BING MAPS IMAGERY (2015)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT  
FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**CULTURALLY IMPORTANT VEGETATION SPECIES COLLECTED IN 2016**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



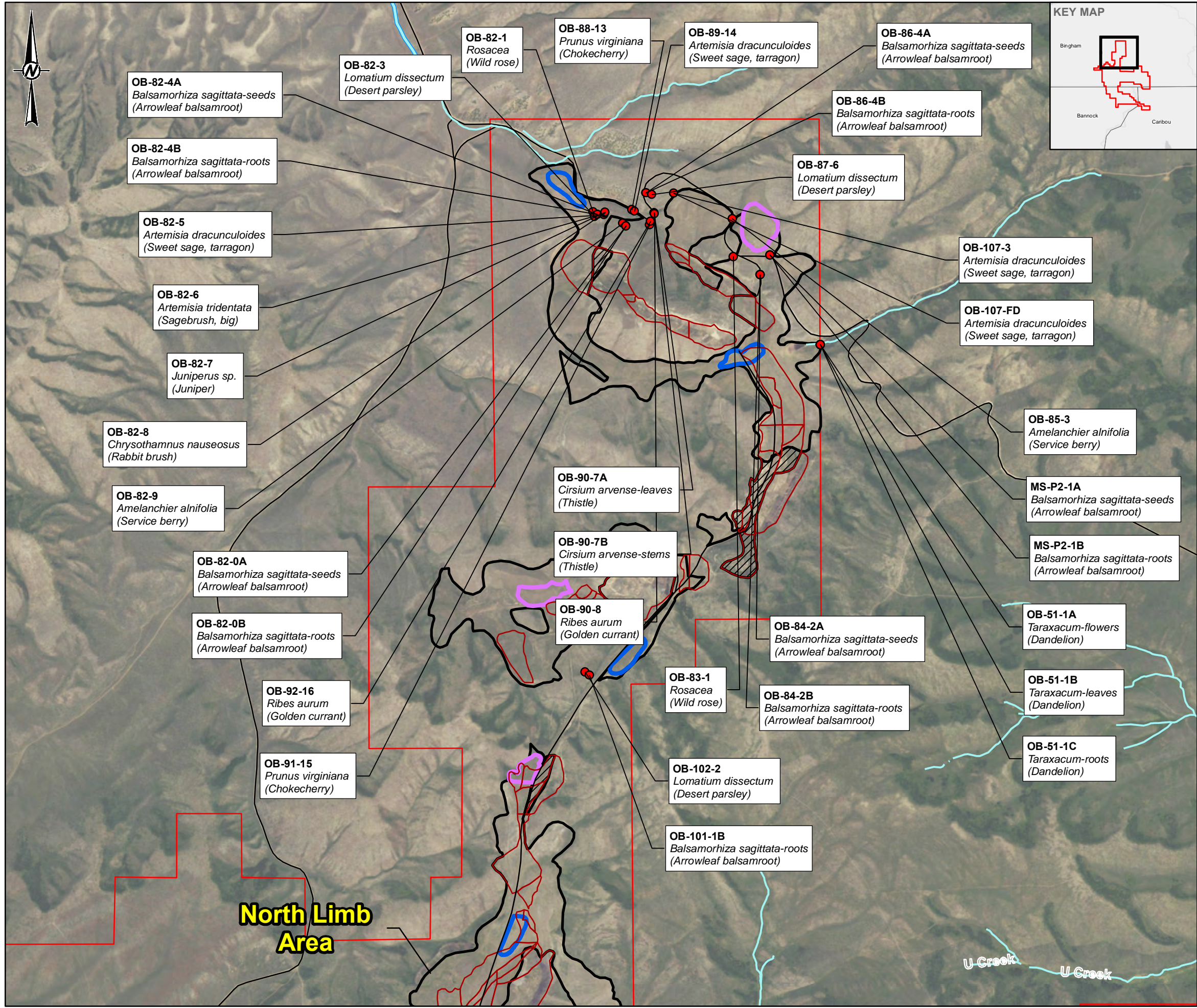
PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>3.2.4</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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**LEGEND**

- Culturally Important Vegetation Species Sampling Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Outline of Pit as Mined
- Major Stream/River
- Minor / Perennial Waterways
- Road
- CERCLA Site Boundary
- Reclamation Area (as of 1994)**
- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

**NOTE(S)**

1. REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
2. HUMAN HEALTH SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN) AND USING RSLs UPDATED IN JAN 2016
3. ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
4. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
5. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

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4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

**PROJECT**  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

**TITLE**  
**CULTURALLY IMPORTANT VEGETATION COLLECTED - NORTH LIMB**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

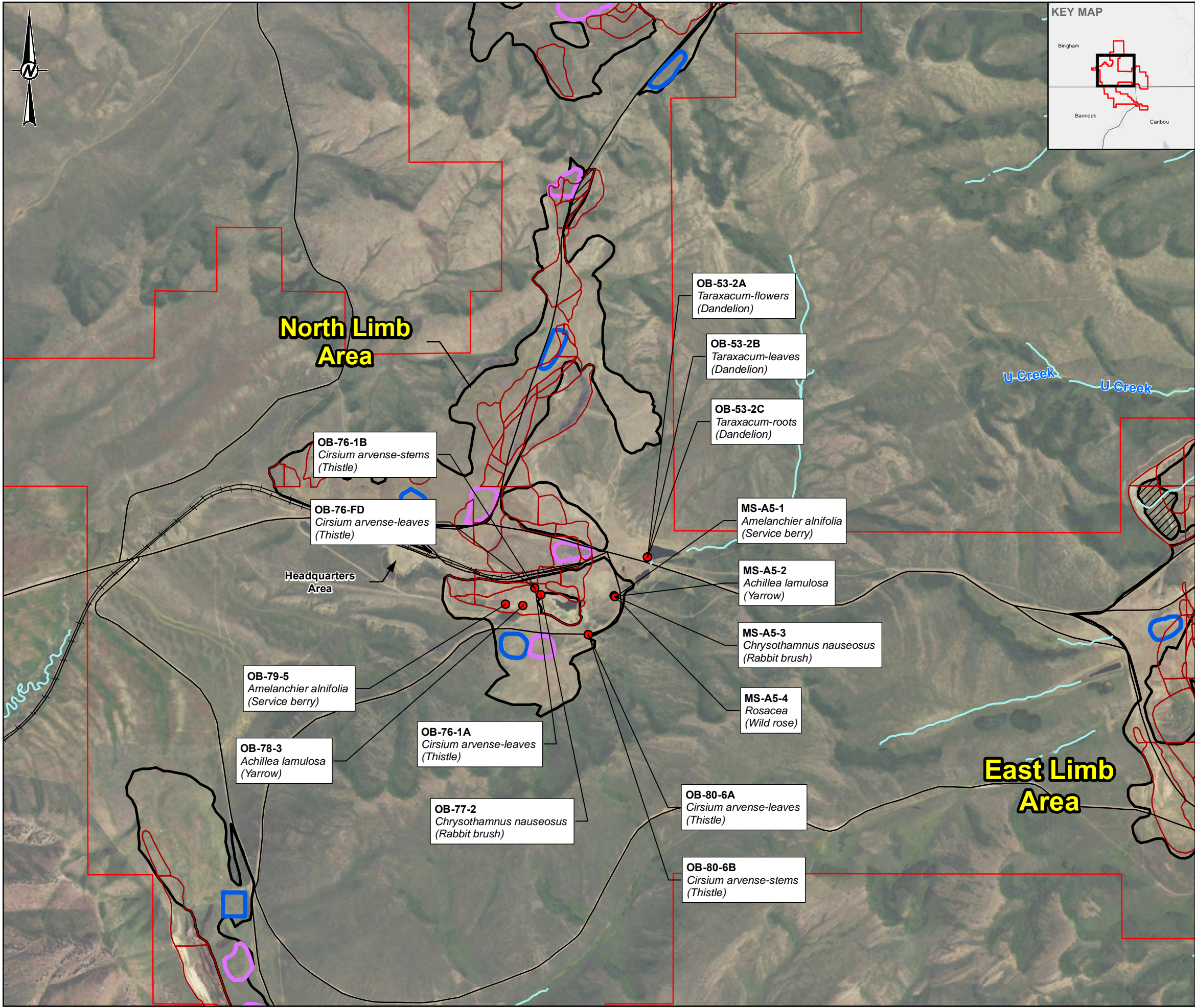
PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-4a



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



PATH: G:\Simplot\GayMine99\_PROJECT\SVI\_030341816\_2016\110002\_PRODUCTION\MXD\FIGURES\DataSummary\Report2016RevA\030341816\_001\_F3\_2\_4b\_RevA\_CulturallyImportantVeg\_HQ.mxd



**LEGEND**

- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Outline of Pit as Mined
- Minor / Perennial Waterways
- Road
- Railroad
- CERCLA Site Boundary

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

**NOTE(S)**

- REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
- HUMAN HEALTH SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN) AND USING RSLs UPDATED IN JAN 2016
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**CULTURALLY IMPORTANT VEGETATION COLLECTED - HEADQUARTERS AREA**

CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	

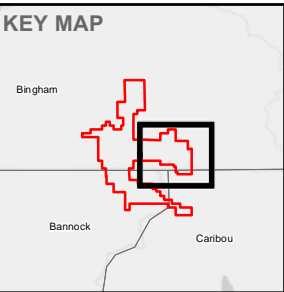
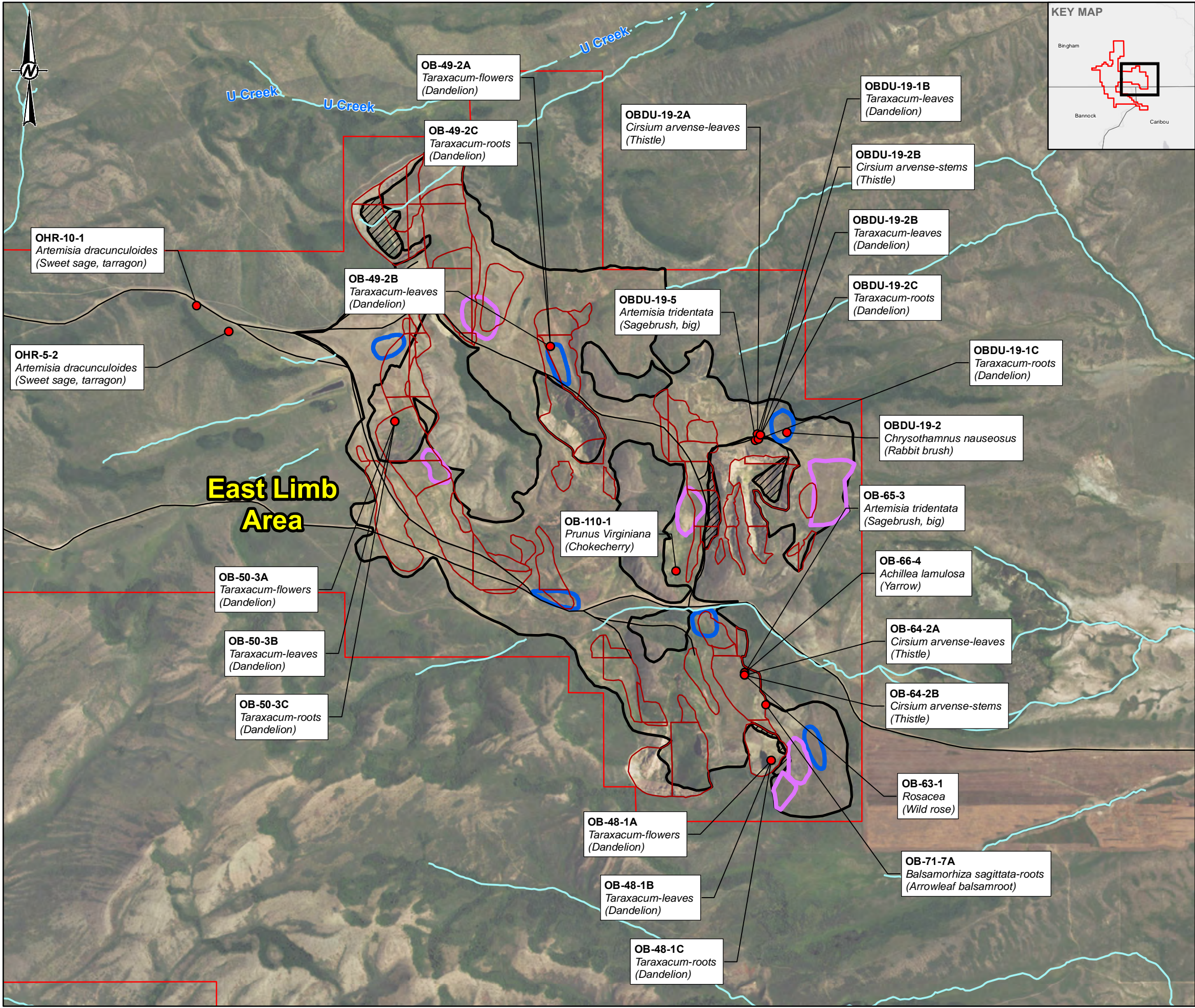


PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.2-4b

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



PATH: G:\Simplot\Gay\mine99\_P\PROJECT\SV\030341816\_2016\10002\_PRODUCTION\MXD\FIGURES\SummaryReport\016RevA\030341816\_001\_F3\_2\_4c\_RevA\_CulturallyImportantVeg\_EastLimb.mxd

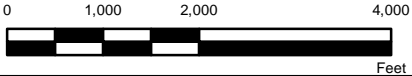


**LEGEND**

- Culturally Important Vegetation Species Sampling Location
- Overburden Decision Unit
- Mill Shale Pile Decision Unit
- Outline of Pit as Mined
- Minor / Perennial Waterways
- Road
- CERCLA Site Boundary

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden



**NOTE(S)**

- REFER TO REPORT TABLE FOR COMPLETE LIST OF ANALYTE EXCEEDANCES.
- HUMAN HEALTH SCREENING LEVELS, MINIMUM OF SOURCES PRESENTED IN RA APPROACH (APPENDIX B TO THE RI WORK PLAN) AND USING RSLs UPDATED IN JAN 2016
- ALL RESULTS ARE PROVIDED ON A DRY WEIGHT BASIS
- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
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**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**CULTURALLY IMPORTANT VEGETATION COLLECTED – EAST LIMB**

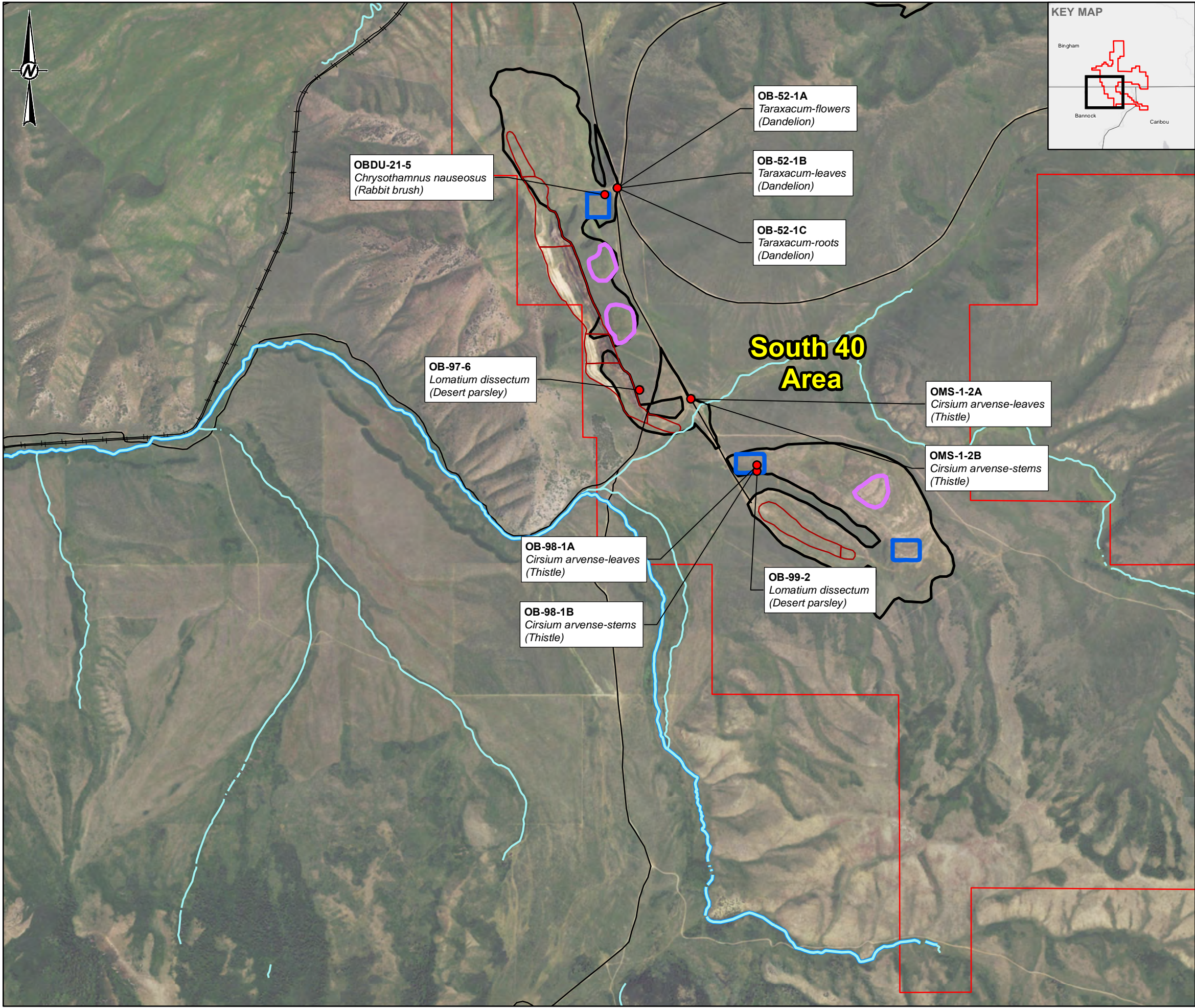
CONSULTANT	YYYY-MM-DD	2017-03-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	SB	
APPROVED	JC	



IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



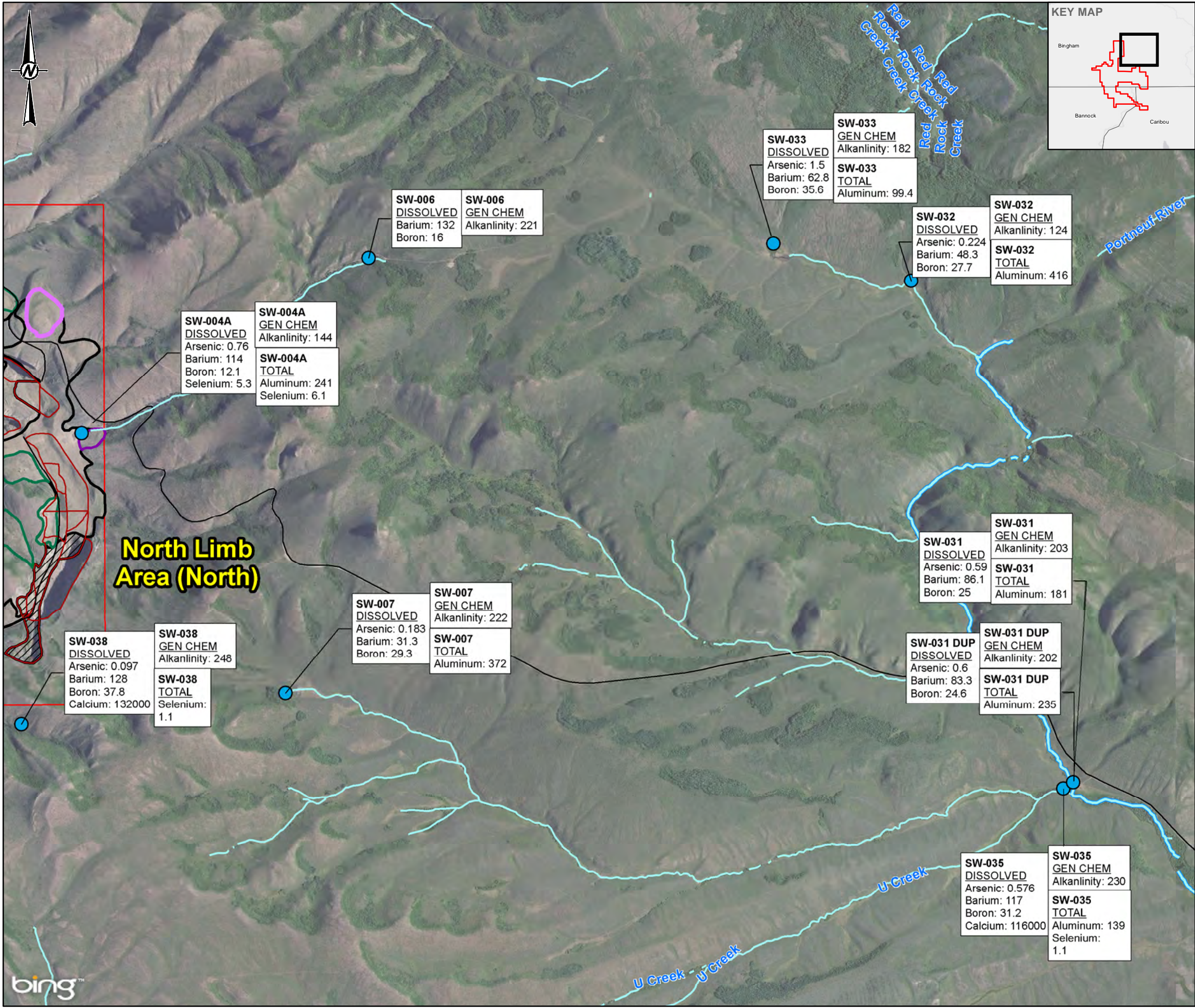
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11in



PATH: G:\Simplot\GayMine99\_PROJECT\SVI\_030341816\_2016\110002\_PRODUCTION\MXD\FIGURES\DataSummary\Report2016RevA\03941816\_001\_F3\_3\_1a\_RevA\_SurfaceWaterEcologicalScreeningLevel\_NorthLimb.mxd



**LEGEND**

- Surface Water Ecological Screening Sample Locations
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined
- Mill Shale Piles (as of 1993)**
  - No Top Soil or Reseeding
  - Partial Top Soil and/or Reseeding
  - Top Soil Added and/or Reseeding
- Reclamation Area (as of 1994)**
  - Reclamation Area
  - Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Dissolved		General Chemistry	
Arsenic	0.14	pH	6.5-9
Barium	4	Alkalinity	20
Boron	1.6	Chloride	230
Cadmium	0.25	Total	
Calcium	116,000	Aluminum	87
Copper	9	Iron	1,000
Magnesium	82,000	Mercury	0
Manganese	120	Molybdenum	35
Selenium	1.5/3.1 <sup>2</sup>	Selenium	1
Uranium	2.6	Thalium	0.8
Vanadium	15		

Analyte units: surface water concentrations for dissolved and total results are in µg/L, general chemistry is in mg/L except for pH.  
<sup>2</sup>Se value from EPA 2016 guidance for lentic and lotic systems.

0 1,000 2,000 4,000  
Feet

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

1. BING MAPS IMAGERY (2017)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

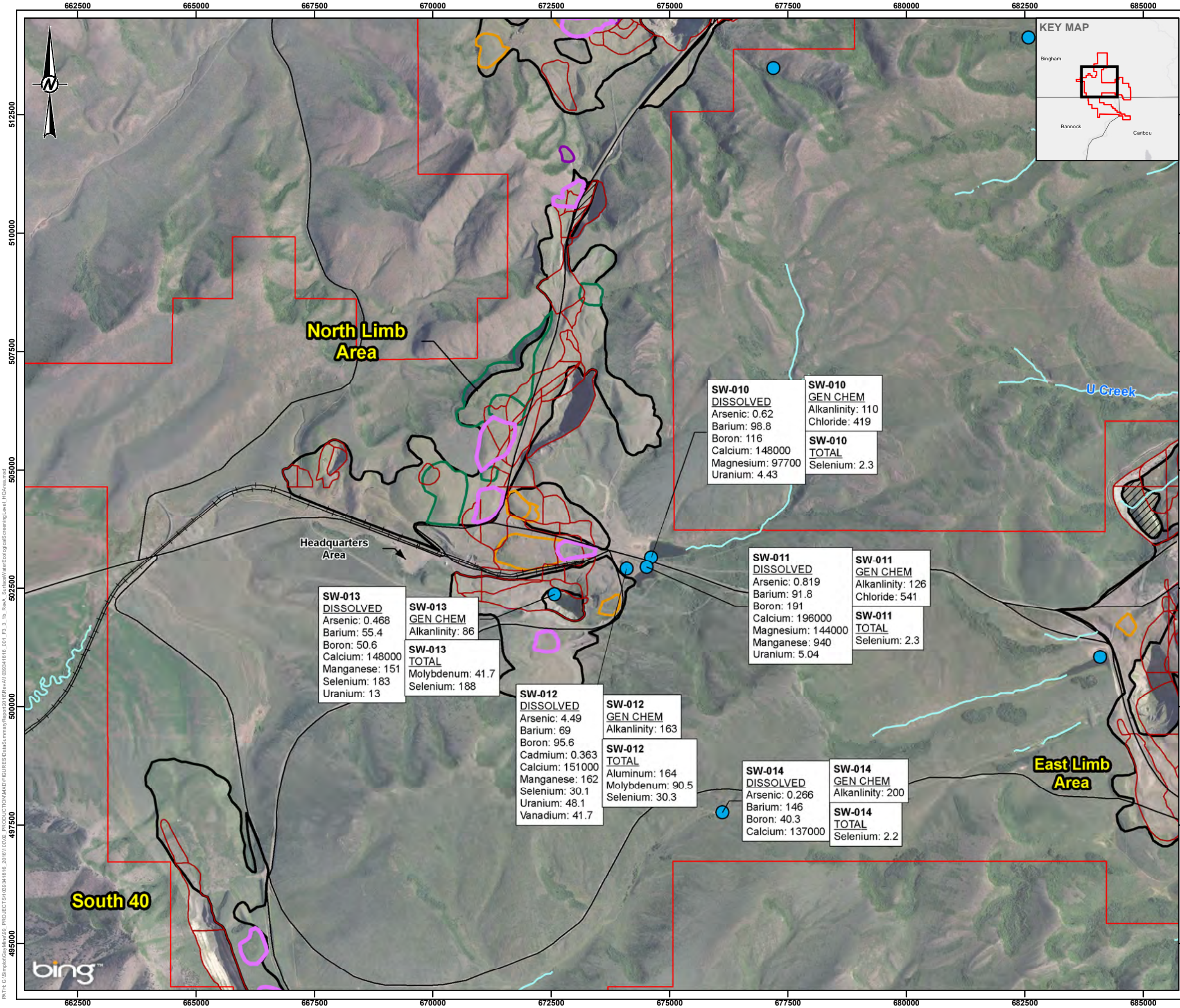
PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**SURFACE WATER ECOLOGICAL SCREENING LEVEL EXCEEDANCES - EAST OF NORTH LIMB (NORTH)**

CONSULTANT	YYYY-MM-DD	2017-02-07
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	

PROJECT NO. 1039341815 CONTROL 001 REV. A FIGURE 3.3-1a





**LEGEND**

- Surface Water Ecological Screening Sample Locations
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined

**Mill Shale Piles (as of 1993)**

- No Top Soil or Reseeding
- Partial Top Soil and/or Reseeding
- Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Surface Water Ecological Screening Values			
Dissolved		General Chemistry	
Arsenic	0.14	pH	6.5-9
Barium	4	Alkalinity	20
Boron	1.6	Chloride	230
Cadmium	0.25	Total	
Calcium	116,000	Aluminum	87
Copper	9	Iron	1,000
Magnesium	82,000	Mercury	0
Manganese	120	Molybdenum	35
Selenium	1.5/3.1 <sup>2</sup>	Selenium	1
Uranium	2.6	Thalium	0.8
Vanadium	15		

Analyte units: surface water concentrations for dissolved and total results are in µg/L, general chemistry is in mg/L except for pH.  
<sup>2</sup>Se value from EPA 2016 guidance for lentic and lotic systems.

01,0002,0004,000

Feet

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

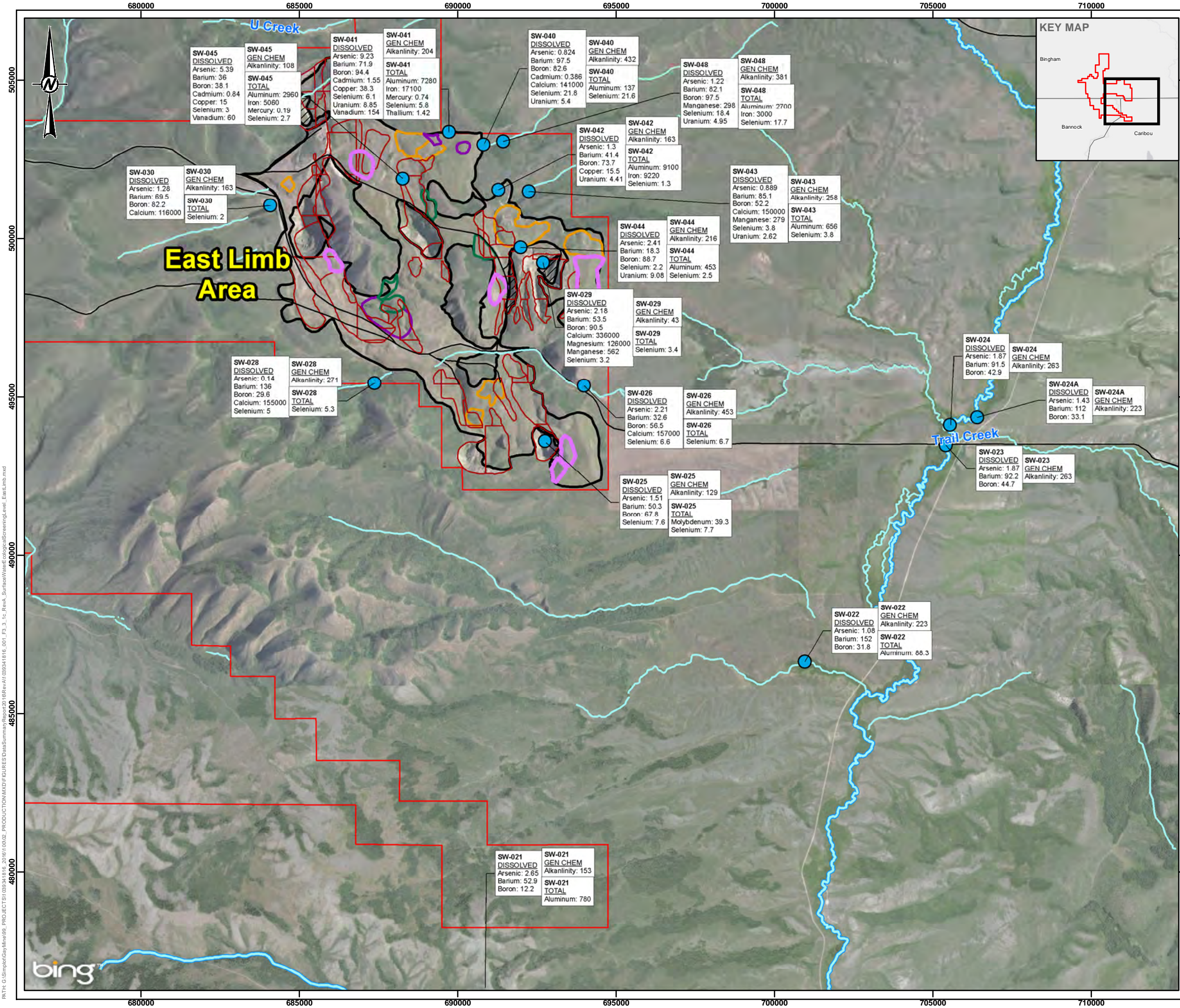
- REFERENCE(S)**
- BING MAPS IMAGERY (2017)
  - IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
  - USGS-NHD (STREAMS)
  - U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2. 1-30-03. CERCLA SITE BOUNDARY)
  - GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
  - COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT		
FMC CORPORATION/J.R.SIMPLLOT COMPANY		
PROJECT		
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID		
TITLE		
SURFACE WATER ECOLOGICAL SCREENING LEVEL EXCEEDANCES – NORTH LIMB (SOUTH)		
CONSULTANT		
YYYY-MM-DD	2017-02-06	
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	

PATH: G:\Simpllot\Gay\mine\ri\PROJECT\SV\030341816\_2016\10\02\_P\PRODUCTION\MXD\FIGURES\DataSummary\Report\0168RevA\103941816\_001\_F3\_3\_1b\_RevA\_SurfaceWaterEcologicalScreeningLevel\_HQArea.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11in





**LEGEND**

- Surface Water Ecological Screening Sample Locations
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined

**Mill Shale Piles (as of 1993)**

- No Top Soil or Reseeding
- Partial Top Soil and/or Reseeding
- Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Surface Water Ecological Screening Values			
Dissolved		General Chemistry	
Arsenic	0.14	pH	6.5-9
Barium	4	Alkalinity	20
Boron	1.6	Chloride	230
Cadmium	0.25	Total	
Calcium	116,000	Aluminum	87
Copper	9	Iron	1,000
Magnesium	82,000	Mercury	0
Manganese	120	Molybdenum	35
Selenium	1.5/3.1 <sup>2</sup>	Selenium	1
Uranium	2.6	Thalium	0.8
Vanadium	15		

Analyte units: surface water concentrations for dissolved and total results are in µg/L, general chemistry is in mg/L except for pH.  
<sup>2</sup>Se value from EPA 2016 guidance for lentic and lotic systems.

0 1,500 3,000 6,000  
Feet

**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

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**REFERENCE(S)**

1. BING MAPS IMAGERY (2016)

2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2, R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
SURFACE WATER ECOLOGICAL SCREENING LEVEL EXCEEDANCES - EAST LIMB

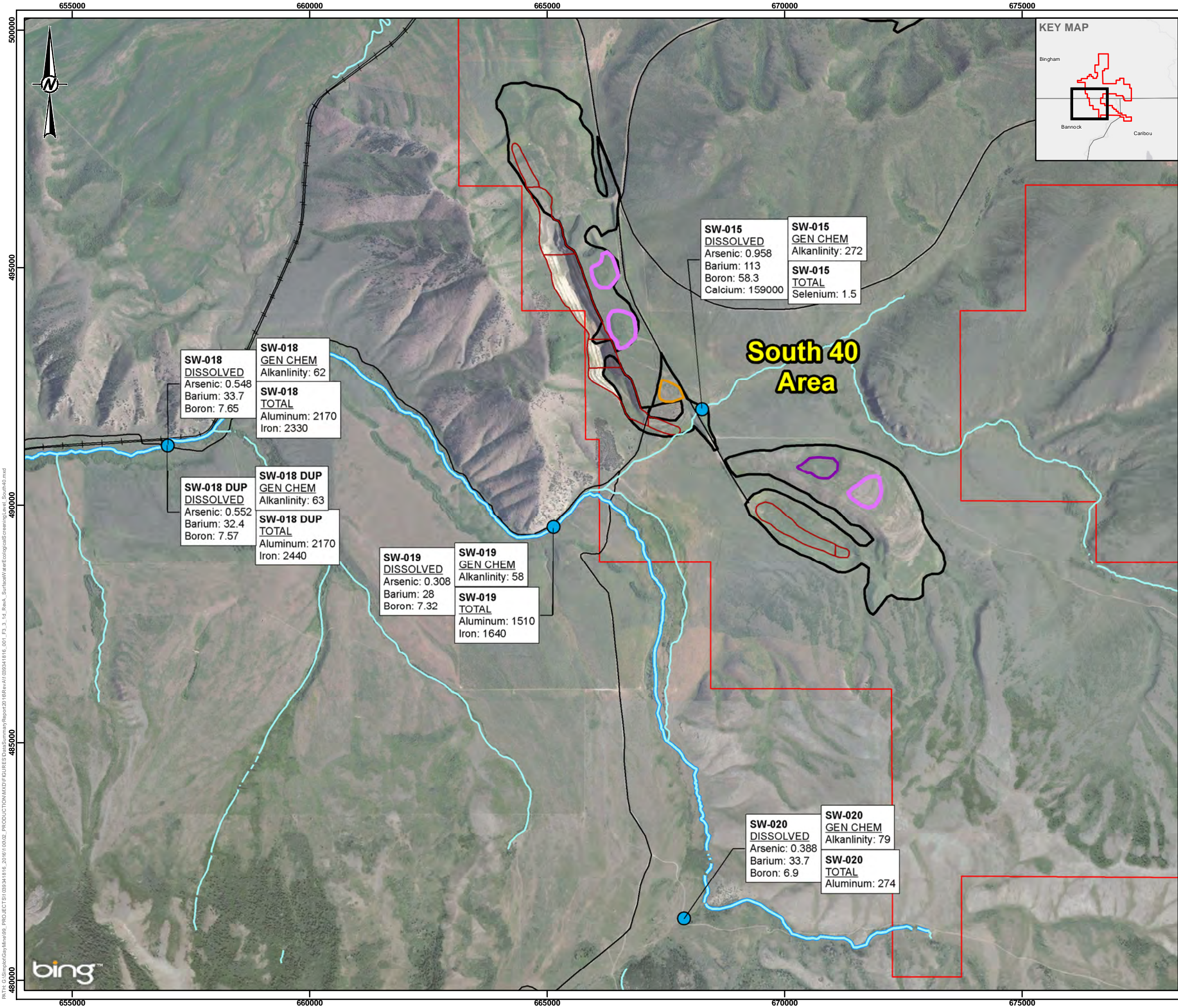
CONSULTANT	YYYY-MM-DD	2017-02-06
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	

PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.3-1c

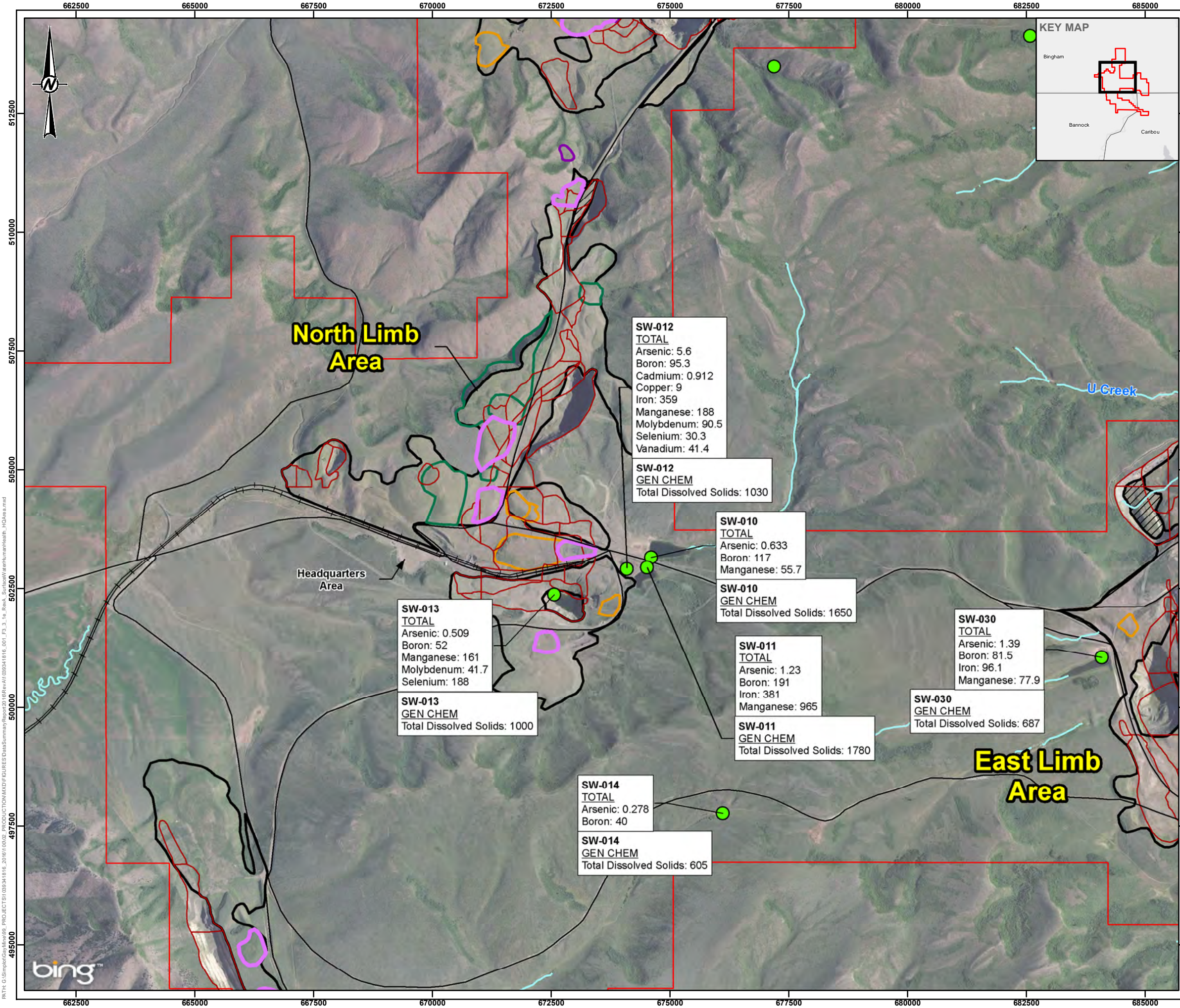
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B 11n









**LEGEND**

- Surface Water Human Health Screening Sample Locations
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined

**Mill Shale Piles (as of 1993)**

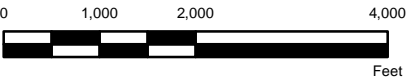
- No Top Soil or Reseeding
- Partial Top Soil and/or Reseeding
- Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Surface Water Human Health Screening Values			
Total			
Arsenic	0.02	Molybdenum	35
Boron	1.6	Nickel	52
Cadmium	0.25	Selenium	5
Chromium	180	Silver	0.24
Hexavalent Chromium	0.52	Thallium	0.24
Cobalt	3	Vanadium	8.1
Copper	9	Zinc	120
Iron	300	<b>General Chemistry</b>	
Lead	2.5	pH	5-9
Manganese	50	TDS	250
Mercury	0.025		

Analyte units: surface water concentrations for dissolved and total results are in µg/L, general chemistry is in mg/L except for pH.



**NOTE(S)**

1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.

2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

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2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

PROJECT  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

TITLE  
**SURFACE WATER HUMAN HEALTH SCREENING LEVEL EXCEEDANCES – NORTH LIMB (SOUTH)**

CONSULTANT	YYYY-MM-DD	2017-02-07
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	

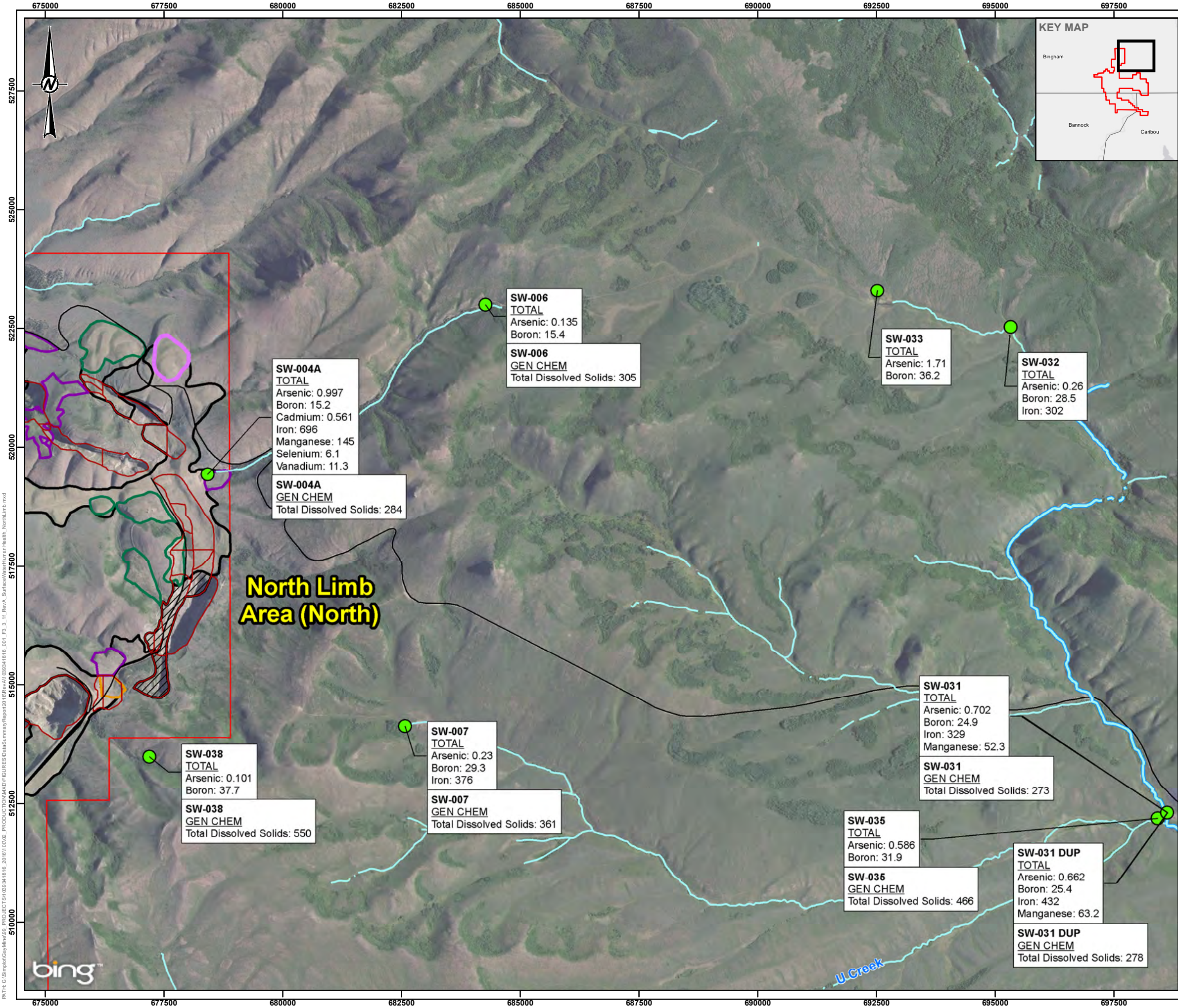


PROJECT NO. 1039341816	CONTROL 001	REV. A	FIGURE <b>3.3-1e</b>
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B





LEGEND

Surface Water Human Health Screening Sample Locations

Major Stream/River

Minor / Perennial Waterways

Road

Railroad

Mill Shale Pile Decision Unit

CERCLA Site Boundary

Outline of Pit as Mined

Mill Shale Piles (as of 1993)

No Top Soil or Reseeding

Partial Top Soil and/or Reseeding

Top Soil Added and/or Reseeding

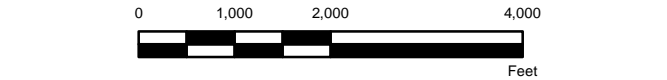
Reclamation Area (as of 1994)

Reclamation Area

Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Surface Water Human Health Screening Values			
Total			
Arsenic	0.02	Molybdenum	35
Boron	1.6	Nickel	52
Cadmium	0.25	Selenium	5
Chromium	180	Silver	0.24
Hexavalent Chromium	0.52	Thallium	0.24
Cobalt	3	Vanadium	8.1
Copper	9	Zinc	120
Iron	300	General Chemistry	
Lead	2.5	pH	5-9
Manganese	50	TDS	250
Mercury	0.025		

Analyte units: surface water concentrations for dissolved and total results are in µg/L, general chemistry is in mg/L except for pH.



NOTE(S)  
1. THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.  
2. USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

- REFERENCE(S)
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2. IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))

3. USGS-NHD (STREAMS)

4. U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)

5. GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, MILL SHALE PILES AS OF 1993), GAY MINE (1994 RECLAMATION STATUS MAP - OUTLINE OF PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)

6. COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

CLIENT

FMC CORPORATION/J.R.SIMPLOT COMPANY

PROJECT

FMC/SIMPLOT/GAY MINE RI/FS 2016 /ID

TITLE

SURFACE WATER HUMAN HEALTH SCREENING LEVEL EXCEEDANCES – NORTH LIMB (NORTH)

CONSULTANT

YYYY-MM-DD

2017-02-07

DESIGNED

TH

PREPARED

HJ

REVIEWED

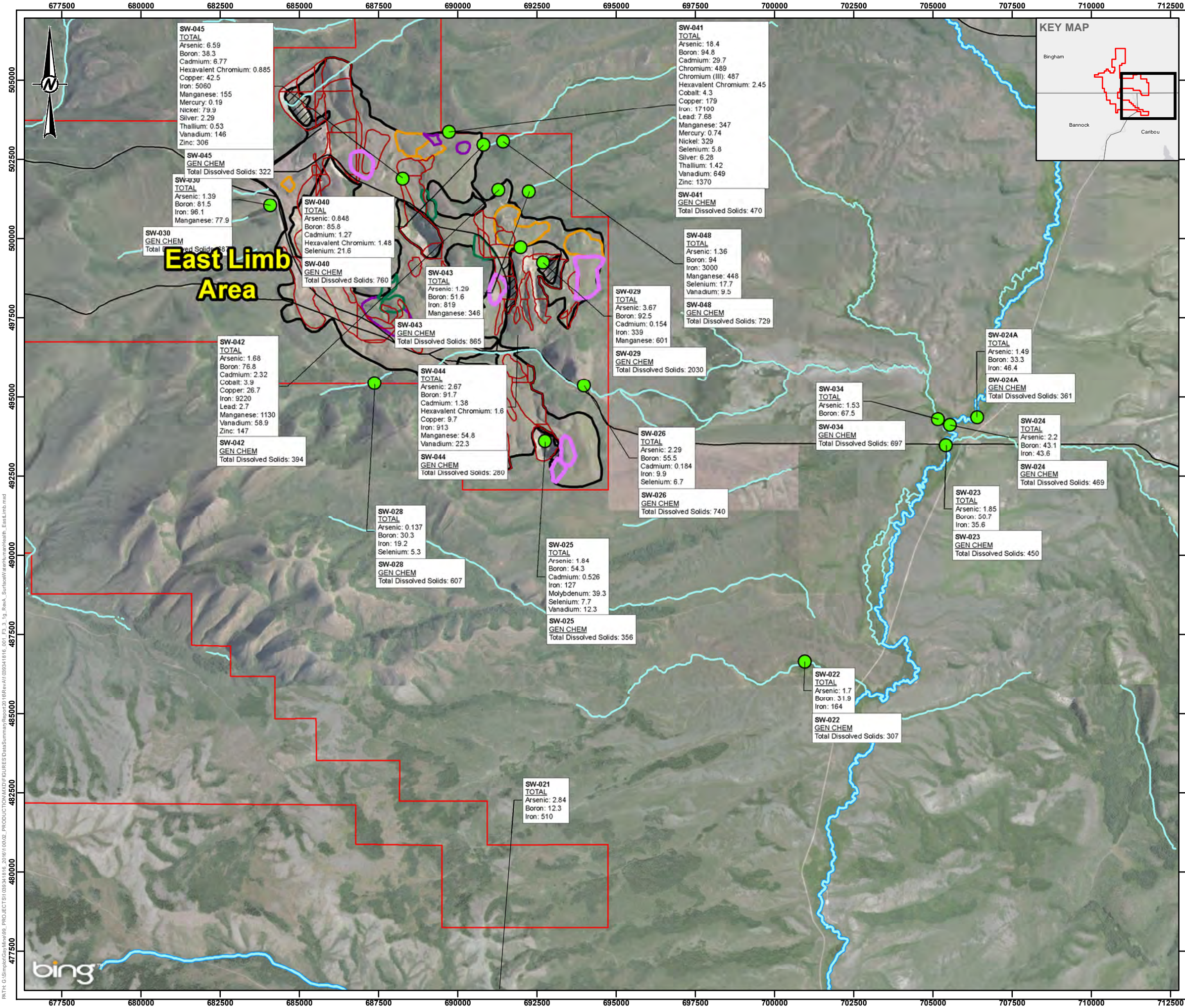
TS

APPROVED

JC







**LEGEND**

- Surface Water Human Health Screening Sample Locations
- Major Stream/River
- Minor / Perennial Waterways
- Road
- Railroad
- Mill Shale Pile Decision Unit
- CERCLA Site Boundary
- Outline of Pit as Mined

**Mill Shale Piles (as of 1993)**

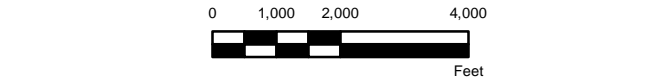
- No Top Soil or Reseeding
- Partial Top Soil and/or Reseeding
- Top Soil Added and/or Reseeding

**Reclamation Area (as of 1994)**

- Reclamation Area
- Reclamation Area, Reclaimed Native Surfaces or In-pit Overburden

Surface Water Human Health Screening Values			
Total			
Arsenic	0.02	Molybdenum	35
Boron	1.6	Nickel	52
Cadmium	0.25	Selenium	5
Chromium	180	Silver	0.24
Hexavalent Chromium	0.52	Thallium	0.24
Cobalt	3	Vanadium	8.1
Copper	9	Zinc	120
Iron	300	General Chemistry	
Lead	2.5	pH	5-9
Manganese	50	TDS	250
Mercury	0.025		

Analyte units: surface water concentrations for dissolved and total results are in µg/L, general chemistry is in mg/L except for pH.



**NOTE(S)**

- THIS FIGURE WAS ORIGINALLY PRODUCED IN COLOR. REPRODUCTION IN BLACK AND WHITE OR COLOR SCHEME OTHER THAN ORIGINAL FIGURE MAY RESULT IN LOSS OF INFORMATION.
- USED THE GAY MINE 1994 RECLAMATION STATUS MAP FOR THE OUTLINE OF PITS, MILL SHALE PILES AND OVERBURDEN RECLAMATION AS OF 1994. OUTLINES OF THESE FEATURES WERE MODIFIED USING GOOGLE EARTH IMAGES AND HISTORICAL AERIAL PHOTOS FROM USGS.

**REFERENCE(S)**

- BING MAPS IMAGERY (2017)
- IDAHO DEPARTMENT OF WATER RESOURCES (IDWR. HYDROLOGIC UNITS (1:100,000) & WATERSHEDS (1:24,000))
- USGS-NHD (STREAMS)
- U.S. BUREAU OF INDIAN AFFAIRS (EMI C310.1.2. R2, 1-30-03, CERCLA SITE BOUNDARY)
- GAY MINE (FIGURE 2-3 - GAY MINE RECLAMATION, LAND STATUS AS OF DECEMBER 1993, PIT AS MINED AND RECLAMATION COMPLETED AS OF 1994)
- COORDINATE SYSTEM: NAD 1983 STATEPLANE IDAHO EAST FIPS 1101 FEET, DATUM: NORTH AMERICAN 1983

**CLIENT**  
FMC CORPORATION/J.R.SIMPLLOT COMPANY

**PROJECT**  
FMC/SIMPLLOT/GAY MINE RI/FS 2016 /ID

**TITLE**  
SURFACE WATER HUMAN HEALTH SCREENING LEVEL EXCEEDANCES – EAST LIMB

CONSULTANT	YYYY-MM-DD	2017-02-07
DESIGNED	TH	
PREPARED	HJ	
REVIEWED	TS	
APPROVED	JC	

PROJECT NO. 1039341816 CONTROL 001 REV. A FIGURE 3.3-1g

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